

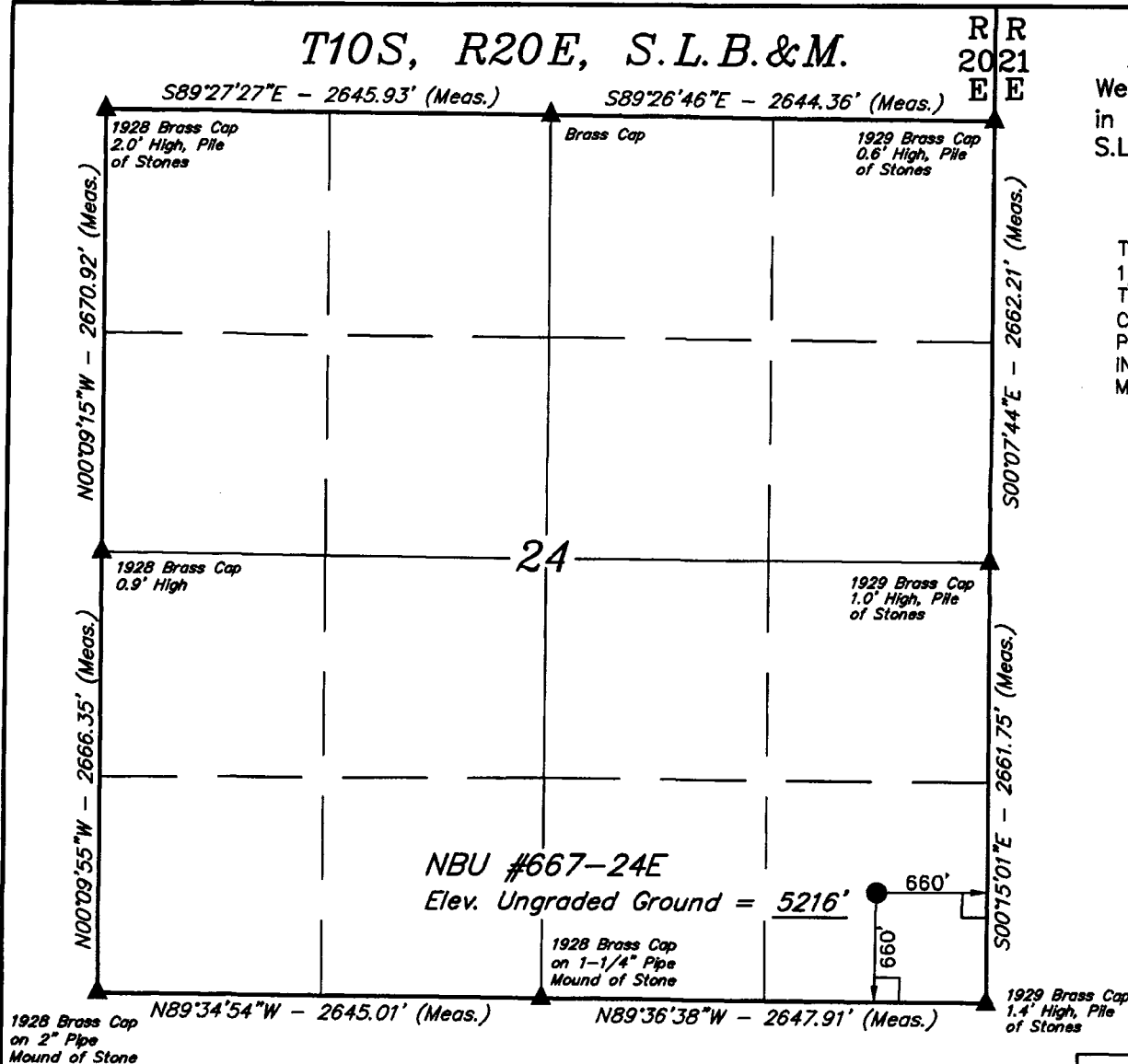
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING					FORM 3 AMENDED REPORT <input type="checkbox"/>	
<b>APPLICATION FOR PERMIT TO DRILL</b>					<b>1. WELL NAME and NUMBER</b> Natural Buttes Unit 667-24E	
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>					<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES	
<b>4. TYPE OF WELL</b> Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>					<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> NATURAL BUTTES	
<b>6. NAME OF OPERATOR</b> EOG Resources, Inc.					<b>7. OPERATOR PHONE</b> 435 781-9111	
<b>8. ADDRESS OF OPERATOR</b> 1060 East Highway 40, Vernal, UT, 84078					<b>9. OPERATOR E-MAIL</b> kaylene_gardner@eogresources.com	
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML 22790			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> S					<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>	
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> ,, UT					<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>	
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION DOWNSTREAM</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>	
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
LOCATION AT SURFACE	660 FSL 660 FEL	SESE	24	10.0 S	20.0 E	S
Top of Uppermost Producing Zone	660 FSL 660 FEL	SESE	24	10.0 S	20.0 E	S
At Total Depth	660 FSL 660 FEL	SESE	24	10.0 S	20.0 E	S
<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 660		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 440		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2980		<b>26. PROPOSED DEPTH</b> MD: 7175 TVD: 7175		
<b>27. ELEVATION - GROUND LEVEL</b> 5216		<b>28. BOND NUMBER</b> 6196017		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 49-225(A31368)		
<b>ATTACHMENTS</b>						
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
<b>NAME</b> Kaylene Gardner		<b>TITLE</b> Sr. Regulatory Assistant		<b>PHONE</b> 435 781-9111		
<b>SIGNATURE</b>		<b>DATE</b> 11/21/2007		<b>EMAIL</b> kaylene_gardner@eogresources.com		
<b>API NUMBER ASSIGNED</b> 43047500120000				<b>APPROVAL</b>		

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 06-18-08  
By: [Signature]

**T10S, R20E, S.L.B.&M.**

R R  
20 21  
E E

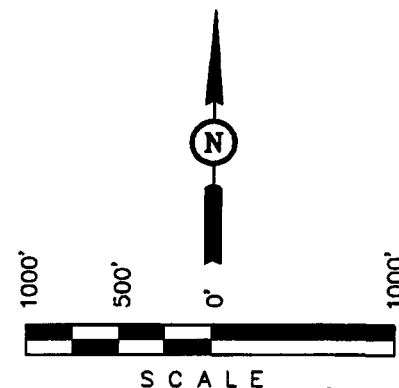


**EOG RESOURCES, INC.**

Well location, NBU #667-24E, located as shown in the SE 1/4 SE 1/4 of Section 24, T10S, R20E, S.L.B.&M., Uintah County Utah.

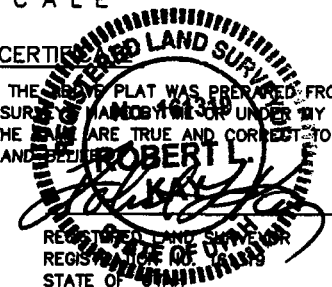
**BASIS OF ELEVATION**

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)  
LATITUDE = 39°55'39.62" (39.927672)  
LONGITUDE = 109°36'23.54" (109.606539)  
(NAD 27)  
LATITUDE = 39°55'39.75" (39.927708)  
LONGITUDE = 109°36'21.06" (109.605850)

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**UINTAH ENGINEERING & LAND SURVEYING**

**85 SOUTH 200 EAST - VERNAL, UTAH 84078**  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-19-07	DATE DRAWN: 10-23-07
PARTY C.R. C.P. S.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE EOG RESOURCES, INC.	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Cond	17.5	13.375	0	45		
Pipe	Grade	Length	Weight			
	H-40	45	48.0			
	Cement Interval	Top (MD)	Bottom (MD)			
		0	0			
		Cement Description	Class	Sacks	Yield	Weight
			C	0	0.0	0.0

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2300		
Pipe	Grade	Length	Weight			
	J-55	2300	36.0			
	Cement Interval	Top (MD)	Bottom (MD)			
		0	2300			
		Cement Description	Class	Sacks	Yield	Weight
			G	185	3.82	11.0
			G	207	1.18	15.6

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	7175		
Pipe	Grade	Length	Weight			
	N-80	7175	11.6			
	Cement Interval	Top (MD)	Bottom (MD)			
		2100	7175			
		Cement Description	Class	Sacks	Yield	Weight
			G	118	3.91	11.0
			G	575	1.25	14.1

## EIGHT POINT PLAN

### NATURAL BUTTES UNIT 667-24E SE/SE, SEC. 24, T10S, R20E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,107		Shale	
Wasatch	4,380	Primary	Sandstone	Gas
Chapita Wells	5,010	Primary	Sandstone	Gas
Buck Canyon	5,716	Primary	Sandstone	Gas
North Horn	6,468		Sandstone	
TD	7,175			

Estimated TD: 7,175' or 200'± TD

Anticipated BHP: 3,918 Psig

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,000 ft ±.
2. Cement isolation is installed to surface of the well isolating all zones by cement.

#### 3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 Psig  
BOP schematic diagrams attached.

#### 4. CASING PROGRAM:

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Rating Collapse	Factor Burst	Tensile
Conductor	17 ½"	0 – 45'	13 ¾"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
Surface	12 ¼"	0' – 2,300' KB±	9-5/8"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
Production	7-7/8"	Surface – TD	4-½"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

**Note:** 12-¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

## **EIGHT POINT PLAN**

### **NATURAL BUTTES UNIT 667-24E** **SE/SE, SEC. 24, T10S, R20E, S.L.B.&M..** **UINTAH COUNTY, UTAH**

#### **5. Float Equipment:**

##### **Surface Hole Procedure (0'- 2300'±)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)

##### **Production Hole Procedure (2300'± - TD):**

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 2nd joint to 400' above Wasatch Island top. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

#### **6. MUD PROGRAM**

##### **Surface Hole Procedure (Surface - 2300'±):**

Air/air mist or aerated water.

**Production Hole Procedure (2300'± - TD):** Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

**2300'± - TD** A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

#### **7. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. Due to reduce location excavation, the blooie line will be approximately 75' in length

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 667-24E**  
**SE/SE, SEC. 24, T10S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**8. EVALUATION PROGRAM:**

**Logs:** Mud log from base of surface casing to TD.  
**Cased-hole Logs:** Cased-hole logs will be run in lieu of open-hole logs consisting of the following:  
**Cement Bond / Casing Collar Locator and Pulsed Neutron**

**9. CEMENT PROGRAM:**

**Surface Hole Procedure (Surface - 2300'±):**

**Lead:** 185 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>, 3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

**Tail:** 207 sks Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

**Top Out:** As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

**Note:** Cement volumes will be calculated to bring lead cement to surface and tail cement to 500' above the casing shoe.

**Production Hole Procedure (2300'± - TD)**

**Lead:** 118 sks: Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44 (Salt), 0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29 (cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 575 sks: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9gps water.

**Note:** The above number of sacks is based on gauge-hole calculation.  
Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe.  
Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

**Final Cement volumes will be based upon gauge-hole plus 45% excess.**



**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 667-24E**  
**SE/SE, SEC. 24, T10S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**10. ABNORMAL CONDITIONS:**

**Surface Hole (Surface - 2300'±):**

Lost circulation

**Production Hole (2300'± - TD):**

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

**11. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**12. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)



***Natural Buttes Unit 667-24E  
SESE, Section 24, T10S, R20E  
Uintah County, Utah***

***SURFACE USE PLAN***

***1. EXISTING ROADS:***

- A. See attached Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 45.4 miles south of Vernal, Utah – See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary.

***2. PLANNED ACCESS ROAD:***

- A. The access road will be approximately 290' in length. See attached Topo B.
- B. The access road has a 40-foot ROW w/18 foot running surface.
- C. Maximum grade of the new access road will be 8 percent.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.
- I. A 40-foot permanent right-of-way is requested. No surfacing material will used.
- J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

All travel will be confined to existing access road rights-of-way.

New or reconstructed roads will be centerlined – flagged at time of location staking.

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 40 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

Traveling off the 40 foot right-of-way will not be allowed. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

**3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS:**

See attached TOPO map "C" for the location of wells within a one-mile radius.

**4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

**A. On Well Pad**

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, two (2) 400-bbl vertical tanks and attaching piping.
2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

**B. Off Well Pad**

1. Proposed pipeline will transport natural gas.
2. The pipeline will be a permanent feeder line.
3. The length of the proposed pipeline is 823' x 40'. The proposed pipeline leaves the western edge of the well pad (Lease ML-22790) proceeding in a northerly direction tying into an existing pipeline in the NENE of Section 24, T10S, R20E.

Pipe will be 4" NOM, 0.156 wall, Grade X42, Zap-Lock, electric weld with a 35 mil X-Tru coating.

4. Proposed pipeline will be a 4" OD steel, zap-lok line laid on the surface
5. Proposed pipeline will be laid on surface.
6. Pipeline will be coupled using the Zap lock method. No additional off-pad facilities will be required.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. **All facilities will be painted with Carlsbad Canyon.** Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

- A. Water supply will be from Ouray Municipal Water Plant at Ouray, Utah, and/or Bonanza Power Plant water source in Sec 26, T8S, R23E Uintah County, UT (State Water Right # 49-225(A31368)). Water will be hauled by a licensed trucking company.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIALS:**

- A. All construction material for this pipeline will be of native borrow and soil accumulated during the construction of the location.
- B. No mineral materials will be required.

**7. METHODS OF HANDLING WASTE DISPOSAL:**

**A. METHODS AND LOCATION**

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the Uintah County Landfill.

4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90 day period, the produced water will be contained in a tank on location and then disposed of at one of the following locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, CWU 550-30N SWD, CWU 2-29 SWD, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
  5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or by removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

The reserve pit shall be lined with felt and a 16 millimeter plastic liner. Sufficient bedding (i.e. weed free straw, or hay; felt; polyswell or soil) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.

EOG Resources, Inc. maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well.

#### **8. ANCILLARY FACILITIES:**

None anticipated.

**9. WELL SITE LAYOUT:**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the southeast corner of the location. The flare pit will be located downwind of the prevailing wind direction on the south side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled pit topsoil (first six inches) will be stored separate from the location topsoil. The stockpiled location topsoil will be stored in a location providing easy access for interim reclamation and protection of the topsoil. Upon completion of construction, the stockpiled topsoil from the location will be broadcast seeded with the approved seed mixture from this location and then walked down with a Caterpillar tractor.

Access to the well pad will be from the north.

**FENCING REQUIREMENTS:**

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.)
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distances between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion

of construction, the fence shall be repaired to BLM or SMA specifications. A cattleguard with an adjacent 16-foot gate shall be installed in any fence where a road is regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently counted on concrete bases. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the BLM, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

**10. PLANS FOR RECLAMATION OF THE SURFACE:**

**A. Interim Reclamation (Producing Location)**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.

**B. Dry Hole/Abandoned Location**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriated surface rehabilitation conditions of approval.

**11. SURFACE OWNERSHIP:**

Surface ownership of the proposed well site, access road, and pipeline route is as follows:

**State of Utah**

**12. OTHER INFORMATION:**

- A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the Authorized Officer. Within five working days the Authorized Officer will inform the operator as to:
- Whether the materials appear eligible for the National Register of Historic Places;
  - The mitigation measures the operator will likely have to undertake before the site can be used.
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Drill” will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

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A cultural resources survey will be conducted and submitted by Montgomery Archaeological Consultants. A paleontology survey will be conducted and submitted by Intermountain Paleontology.

***LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:***

**PERMITTING AGENT**

Kaylene R. Gardner  
EOG Resources, Inc.  
P.O. Box 1815  
Vernal, Ut 84078  
(435) 781-9111

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**CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

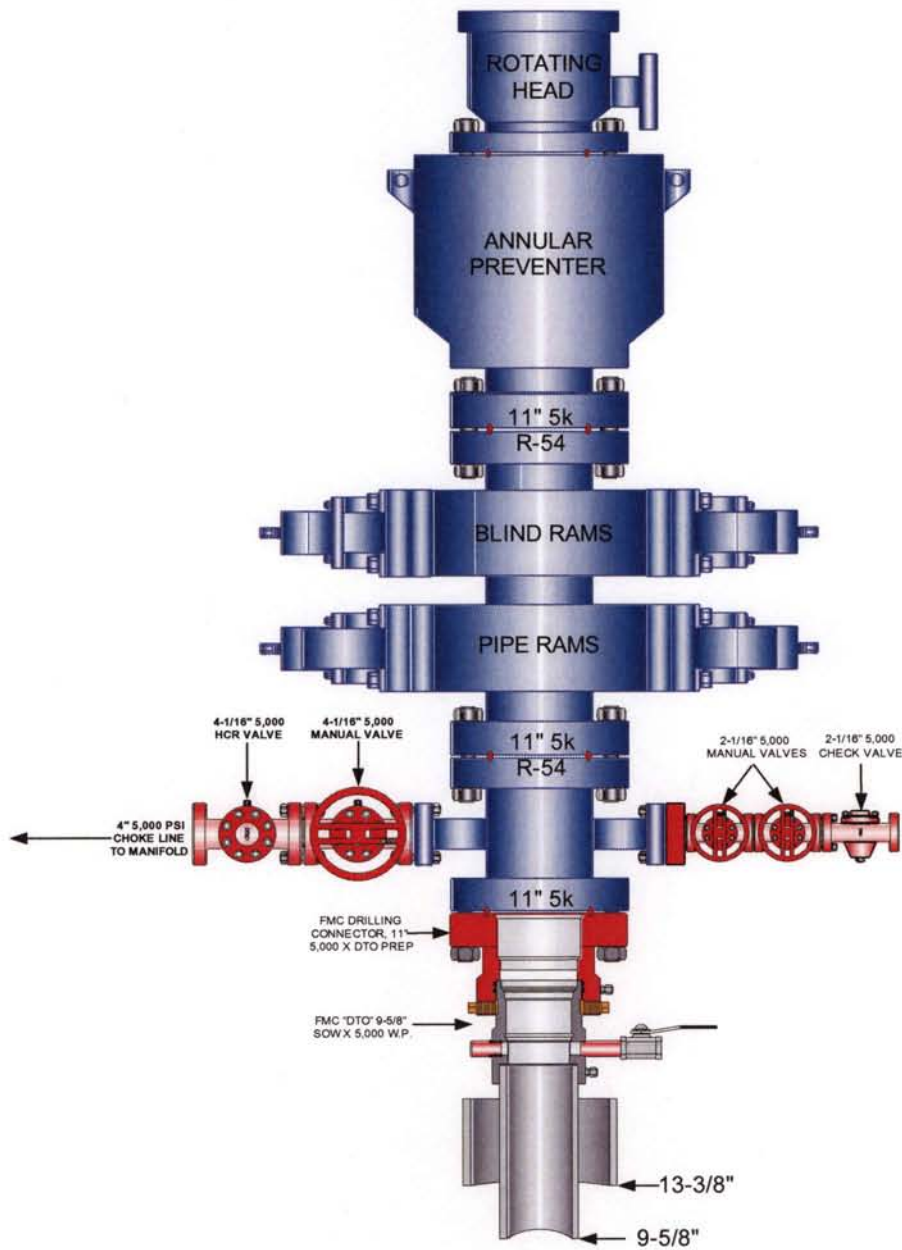
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November 15, 2007  
Date

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Kaylene R. Gardner, Lead Regulatory Assistant

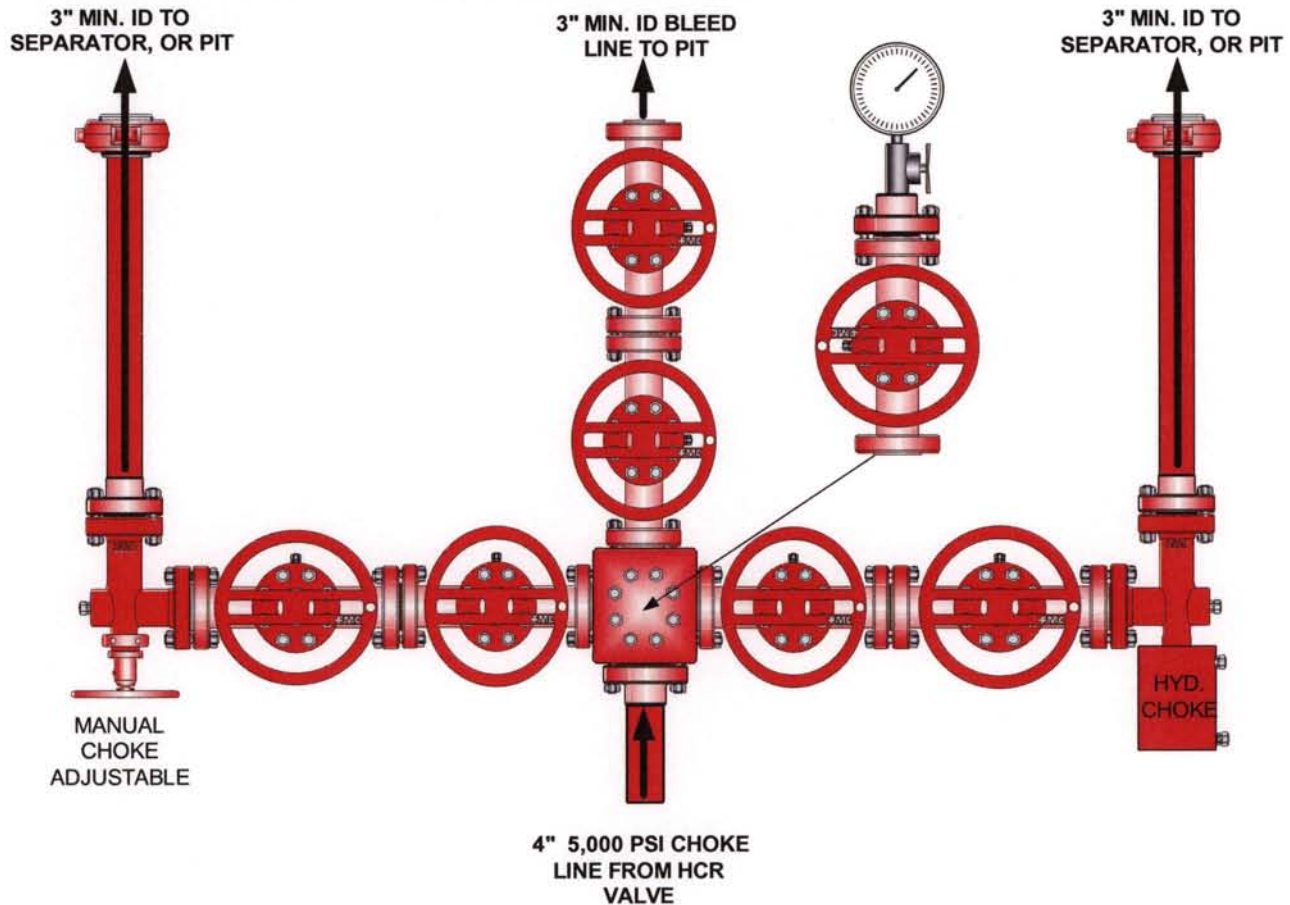
**EOG RESOURCES 11" 5,000 PSI W.P. BOP  
CONFIGURATION**

PAGE 1 OF 2



**EOG RESOURCES CHOKE MANIFOLD CONFIGURATION  
W/ 5,000 PSI WP VALVES**

PAGE 2 OF 2



**Testing Procedure:**

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.  
Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength, **whichever is greater.**
4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.

## EIGHT POINT PLAN

### NATURAL BUTTES UNIT 667-24E SE/SE, SEC. 24, T10S, R20E, S.L.B.&M.. UINTAH COUNTY, UTAH

#### 1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,107		Shale	
Wasatch	4,380	Primary	Sandstone	Gas
Chapita Wells	5,010	Primary	Sandstone	Gas
Buck Canyon	5,716	Primary	Sandstone	Gas
North Horn	6,468		Sandstone	
TD	7,175			

Estimated TD: 7,175' or 200'± below Price River top      Anticipated BHP: 3,918 Psig

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,000 ft ±.
2. Cement isolation is installed to surface of the well isolating all zones by cement.

#### 3. PRESSURE CONTROL EQUIPMENT:

Production Hole – 5000 Psig  
BOP schematic diagrams attached.

#### 4. CASING PROGRAM:

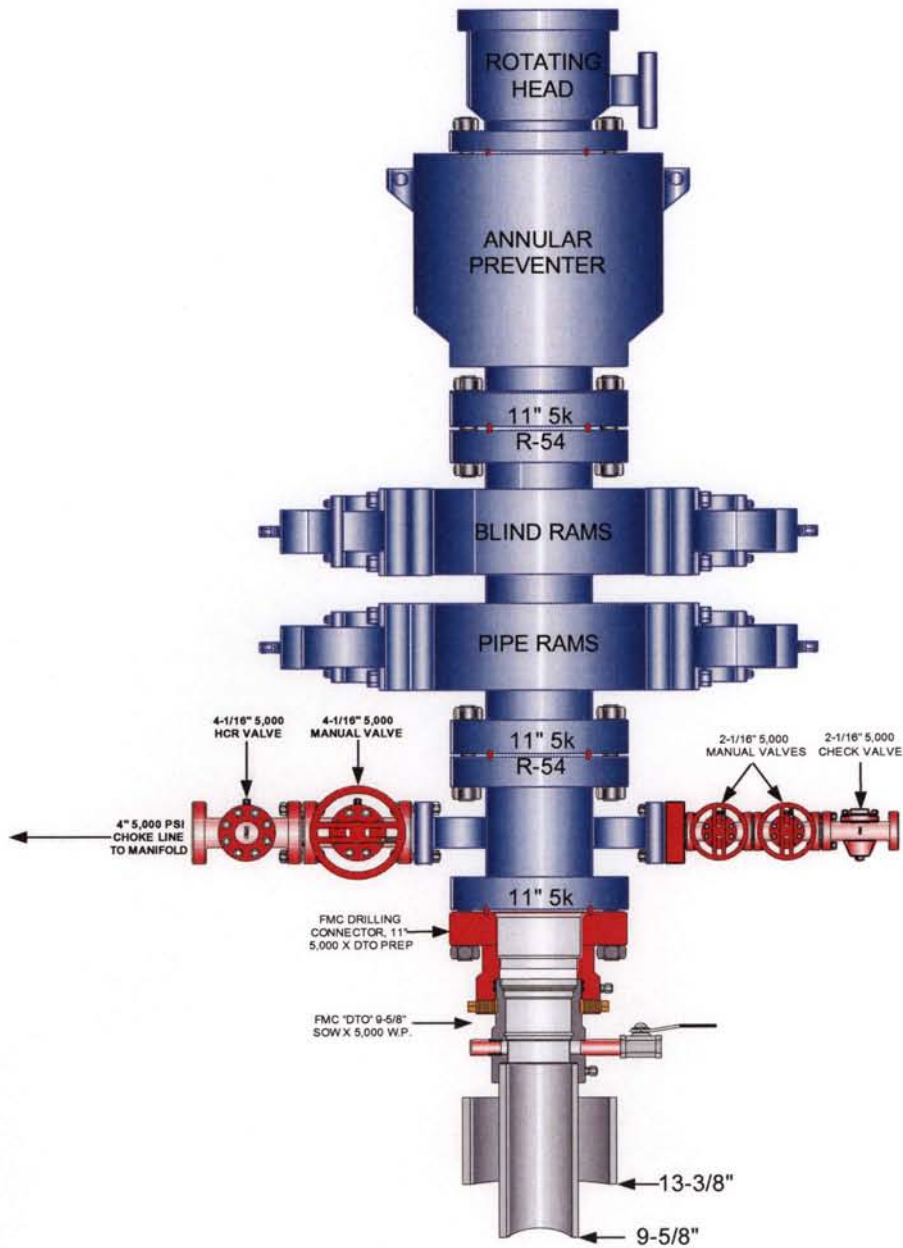
CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Rating Collapse	Factor Burst	Tensile
Conductor	17 ½"	0 – 45'	13 ⅝"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
Surface	12 ¼"	0' – 2,300' KB±	9-⅝"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
Production	7-7/8"	Surface – TD	4-½"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

Note: 12-¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-⅝" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

All casing will be new or inspected.

**EOG RESOURCES 11" 5,000 PSI W.P. BOP  
CONFIGURATION**

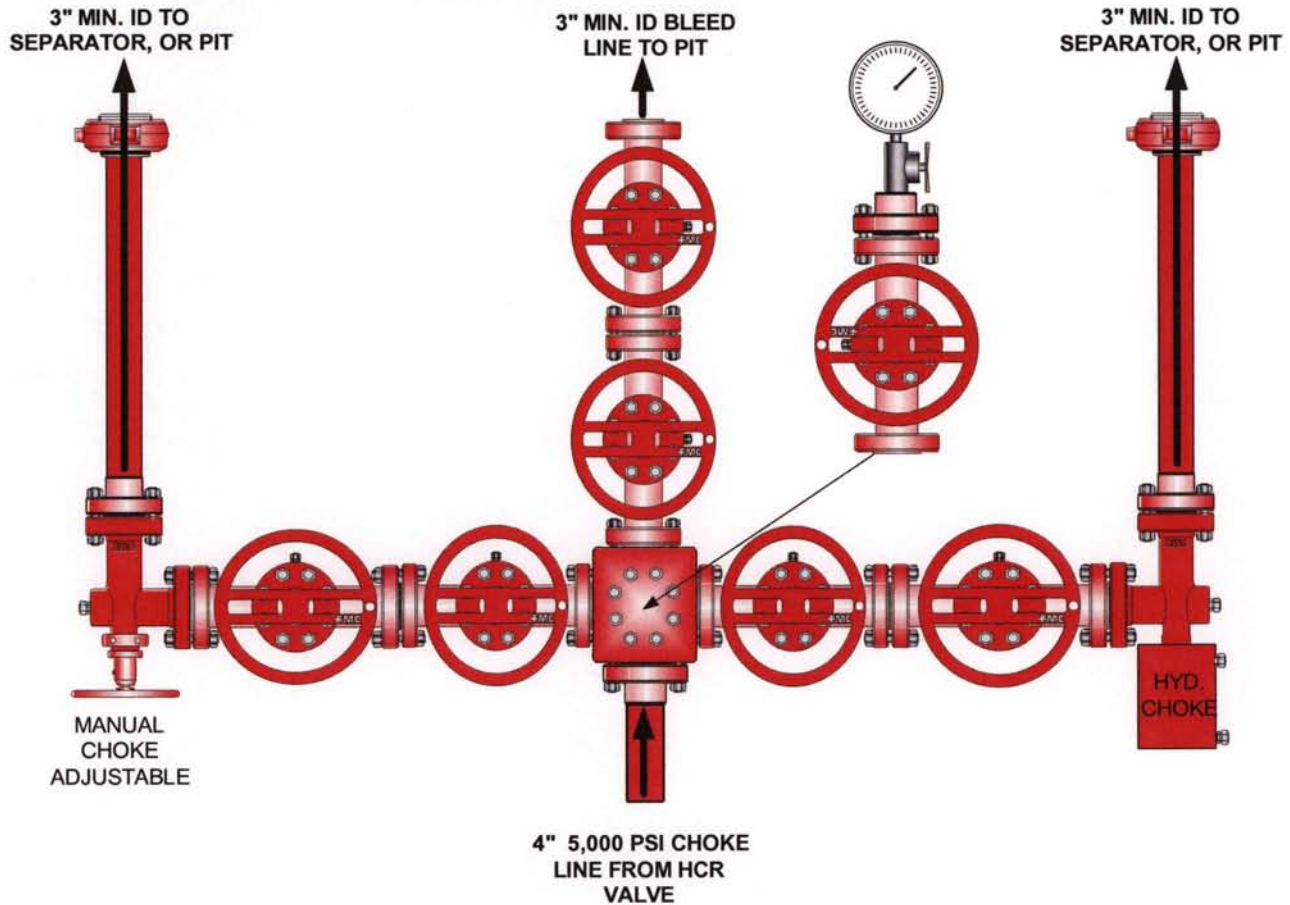
PAGE 1 OF 2





**EOG RESOURCES CHOKE MANIFOLD CONFIGURATION  
W/ 5,000 PSI WP VALVES**

PAGE 2 OF 2



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Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength, **whichever is greater.**
4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.



***Natural Buttes Unit 667-24E  
SESE, Section 24, T10S, R20E  
Uintah County, Utah***

***SURFACE USE PLAN***

***1. EXISTING ROADS:***

- A. See attached Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 45.4 miles south of Vernal, Utah – See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary.

***2. PLANNED ACCESS ROAD:***

- A. The access road will be approximately 290' in length. See attached Topo B.
- B. The access road has a 40-foot ROW w/18 foot running surface.
- C. Maximum grade of the new access road will be 8 percent.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.
- I. A 40-foot permanent right-of-way is requested. No surfacing material will used.
- J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

All travel will be confined to existing access road rights-of-way.

New or reconstructed roads will be centerlined – flagged at time of location staking.



The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 40 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

Traveling off the 40 foot right-of-way will not be allowed. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

**3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS:**

See attached TOPO map "C" for the location of wells within a one-mile radius.

**4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

**A. On Well Pad**

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, two (2) 400-bbl vertical tanks and attaching piping.
2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

**B. Off Well Pad**

1. Proposed pipeline will transport natural gas.
2. The pipeline will be a permanent feeder line.
3. The length of the proposed pipeline is 823' x 40'. The proposed pipeline leaves the western edge of the well pad (Lease ML-22790) proceeding in a westerly direction for an approximate distance of 100' tying into an existing pipeline in the

SENE of Section 32, T9S, R23E. Pipe will be 4" NOM, 0.156 wall, Grade X42, Zap-Lock, electric weld with a 35 mil X-Tru coating.

4. Proposed pipeline will be a 4" OD steel, zap-lok line laid on the surface
5. Proposed pipeline will be laid on surface.
6. Pipeline will be coupled using the Zap lock method. No additional off-pad facilities will be required.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. **All facilities will be painted with Carlsbad Canyon.** Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

- A. Water supply will be from Ouray Municipal Water Plant at Ouray, Utah, and/or Bonanza Power Plant water source in Sec 26, T8S, R23E Uintah County, UT (State Water Right # 49-225(A31368)). Water will be hauled by a licensed trucking company.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIALS:**

- A. All construction material for this pipeline will be of native borrow and soil accumulated during the construction of the location.
- B. No mineral materials will be required.

**7. METHODS OF HANDLING WASTE DISPOSAL:**

**A. METHODS AND LOCATION**

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at the Uintah County Landfill.

4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90 day period, the produced water will be contained in a tank on location and then disposed of at one of the following locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, CWU 550-30N SWD, CWU 2-29 SWD, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
  5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or by removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

The reserve pit shall be lined with felt and a 16 millimeter plastic liner. Sufficient bedding (i.e. weed free straw, or hay; felt; polyswell or soil) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.

EOG Resources, Inc. maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well.

#### **8. ANCILLARY FACILITIES:**

None anticipated.

**9. WELL SITE LAYOUT:**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the southeast corner of the location. The flare pit will be located downwind of the prevailing wind direction on the south side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled pit topsoil (first six inches) will be stored separate from the location topsoil. The stockpiled location topsoil will be stored in a location providing easy access for interim reclamation and protection of the topsoil. Upon completion of construction, the stockpiled topsoil from the location will be broadcast seeded with the approved seed mixture from this location and then walked down with a Caterpillar tractor.

Access to the well pad will be from the north.

**FENCING REQUIREMENTS:**

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.)
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distances between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion

of construction, the fence shall be repaired to BLM or SMA specifications. A cattleguard with an adjacent 16-foot gate shall be installed in any fence where a road is regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently counted on concrete bases. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the BLM, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

#### **10. PLANS FOR RECLAMATION OF THE SURFACE:**

##### **A. Interim Reclamation (Producing Location)**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.

##### **B. Dry Hole/Abandoned Location**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriated surface rehabilitation conditions of approval.

#### **11. SURFACE OWNERSHIP:**

Surface ownership of the proposed well site, access road, and pipeline route is as follows:

**State of Utah**

#### **12. OTHER INFORMATION:**

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November 15, 2007  
Date

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Kaylene R. Gardner, Lead Regulatory Assistant



**EIGHT POINT PLAN**  
**NATURAL BUTTES UNIT 667-24E**  
**SE/SE, SEC. 24, T10S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**5. Float Equipment:**

**Surface Hole Procedure (0'- 2300'±)**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)

**Production Hole Procedure (2300'± - TD):**

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 2nd joint to 400' above Wasatch Island top. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**6. MUD PROGRAM**

**Surface Hole Procedure (Surface - 2300'±):**

Air/air mist or aerated water.

**Production Hole Procedure (2300'± - TD):** Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

**2300'± - TD** A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

**7. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. Due to reduce location excavation, the blooie line will be approximately 75' in length

## **EIGHT POINT PLAN**

### **NATURAL BUTTES UNIT 667-24E** **SE/SE, SEC. 24, T10S, R20E, S.L.B.&M..** **UINTAH COUNTY, UTAH**

#### **8. EVALUATION PROGRAM:**

**Logs:** Mud log from base of surface casing to TD.  
**Cased-hole Logs:** Cased-hole logs will be run in lieu of open-hole logs consisting of the following:  
**Cement Bond / Casing Collar Locator and Pulsed Neutron**

#### **9. CEMENT PROGRAM:**

##### **Surface Hole Procedure (Surface - 2300'±):**

**Lead:** 185 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>, 3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

**Tail:** 207 sks Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

**Top Out:** As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

**Note:** Cement volumes will be calculated to bring lead cement to surface and tail cement to 500' above the casing shoe.

##### **Production Hole Procedure (2300'± - TD)**

**Lead:** 118 sks: Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44 (Salt), 0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29 (cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 575 sks: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9gps water.

**Note:** The above number of sacks is based on gauge-hole calculation.  
Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe.  
Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

**Final Cement volumes will be based upon gauge-hole plus 45% excess.**

**EIGHT POINT PLAN**  
**NATURAL BUTTES UNIT 667-24E**  
**SE/SE, SEC. 24, T10S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**10. ABNORMAL CONDITIONS:**

**Surface Hole (Surface - 2300'±):**

Lost circulation

**Production Hole (2300'± - TD):**

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

**11. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**12. HAZARDOUS CHEMICALS:**

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)

# EOG RESOURCES, INC.

NBU #667-24E

SECTION 24, T10S, R20E, S.L.B.&M.

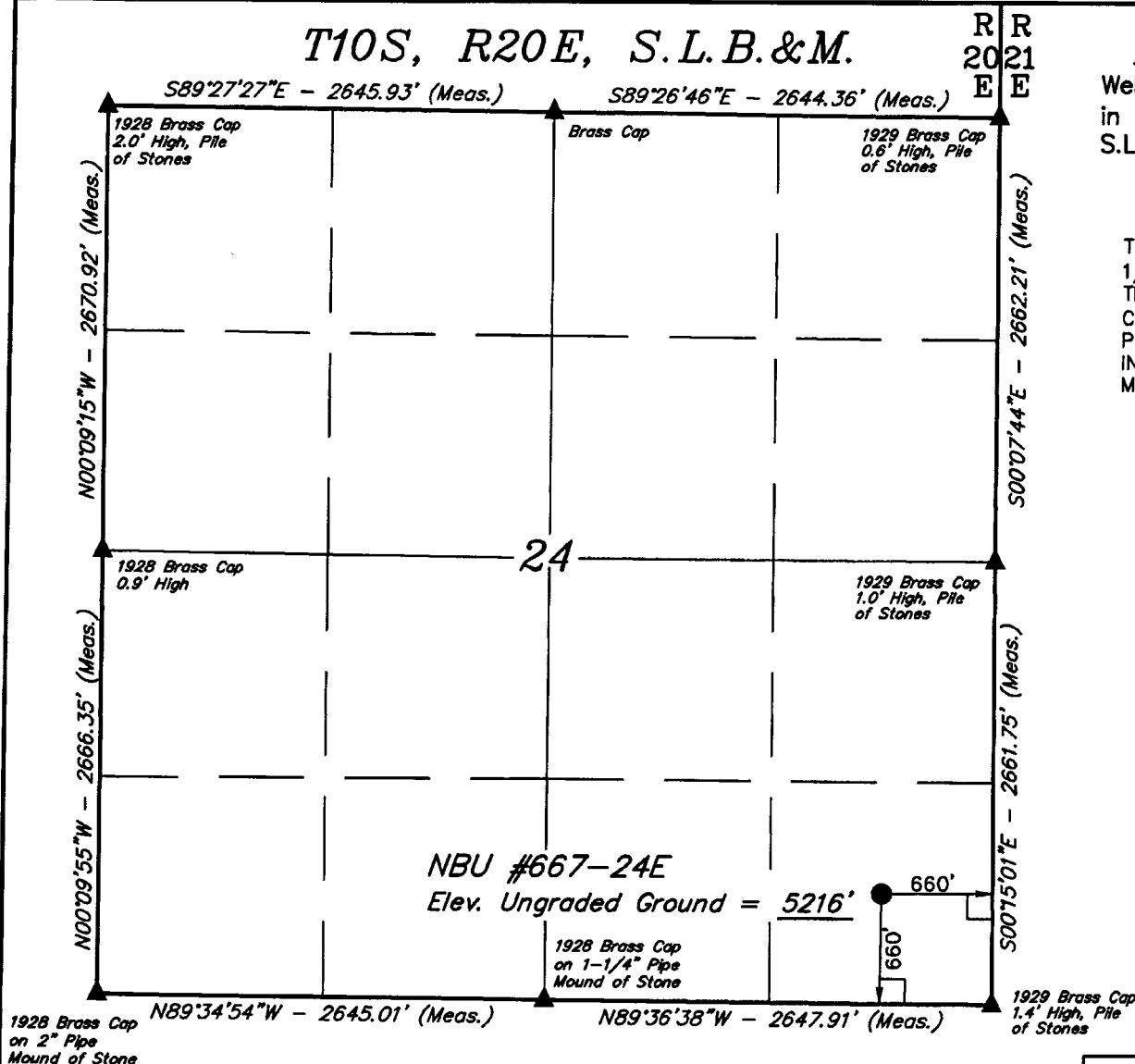
PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 13.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #664-24E TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 290' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 45.4 MILES.

T10S, R20E, S.L.B.&M.

R  
20  
E

R  
21  
E

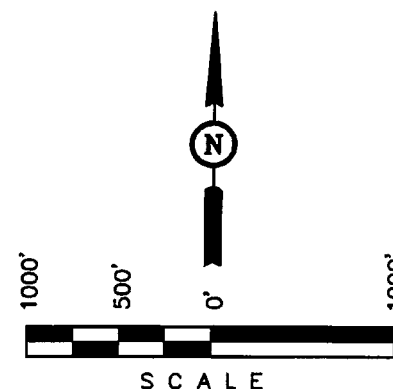


EOG RESOURCES, INC.

Well location, NBU #667-24E, located as shown in the SE 1/4 SE 1/4 of Section 24, T10S, R20E, S.L.B.&M., Uintah County Utah.

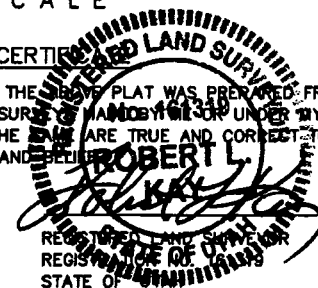
### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)  
LATITUDE = 39°55'39.62" (39.927672)  
LONGITUDE = 109°36'23.54" (109.606539)  
(NAD 27)  
LATITUDE = 39°55'39.75" (39.927708)  
LONGITUDE = 109°36'21.06" (109.605850)

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

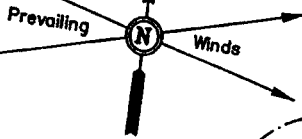
SCALE 1" = 1000'	DATE SURVEYED: 10-19-07	DATE DRAWN: 10-23-07
PARTY C.R. C.P. S.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE EOG RESOURCES, INC.	

# EOG RESOURCES, INC.

## LOCATION LAYOUT FOR

NBU #667-24E  
SECTION 24, T10S, R20E, S.L.B.&M.  
660' FSL 660' FEL

FIGURE #1



SCALE: 1" = 50'  
DATE: 10-23-07  
Drawn By: S.G.

Approx.  
Top of  
Cut Slope

NOTE:  
Flare Pit is to  
be located a min.  
of 100' from the  
Well Head.

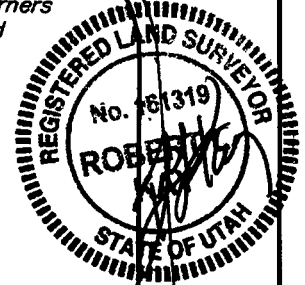
CONSTRUCT  
DIVERSION  
DITCH

Proposed Access  
Road

F-1.3'  
El. 211.9'

Sta. 3+75

Round Corners  
as needed



Existing  
Drainage

200'

PIPE RACKS

Pit Topsoil

C-15.7'  
El. 216.9'  
(btm. pit)

C-4.7'  
El. 217.9'

C-2.7'  
El. 215.9'

F-5.3'  
El. 207.9'

Sta. 1+75

Reserve Pit Backfill  
& Spoils Stockpile

15' WIDE BENCH

RESERVE PITS  
(12' Deep)

Total Pit Capacity  
W/2' of Freeboard  
= 14,950 Bbls.±  
Total Pit Volume  
= 4,030 Cu. Yds

1:1 1/2 SLOPE

MUD TANKS

RIG

DOG HOUSE

WATER

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

Sta. 0+50

TOILET

FUEL

Topsail Stockpile

C-23.6'  
El. 224.8'  
(btm. pit)

20' WIDE BENCH

C-2.3'  
El. 215.5'

F-1.0'  
El. 212.2'

Sta. 0+00

STORAGE  
TANK

F-5.7'  
El. 207.5'

Approx.  
Toe of  
Fill Slope

Elev. Ungraded Ground at Location Stake = 5215.9'  
Elev. Graded Ground at Location Stake = 5213.2'

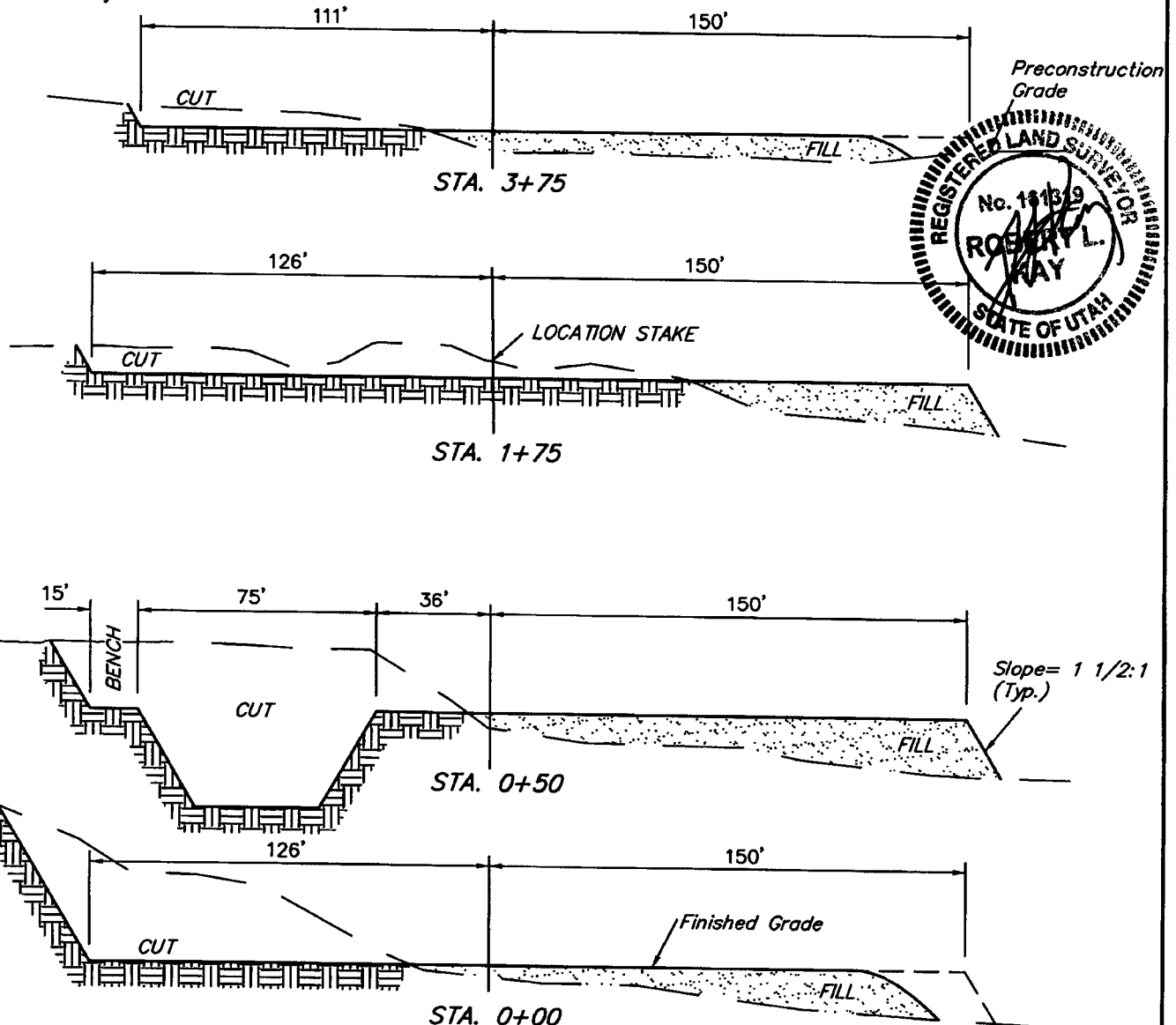
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85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

**EOG RESOURCES, INC.**  
**TYPICAL CROSS SECTIONS FOR**  
**NBU #667-24E**  
**SECTION 24, T10S, R20E, S.L.B.&M.**  
**660' FSL 660' FEL**

**FIGURE #2**

X-Section  
Scale  
1" = 50'

DATE: 10-23-07  
Drawn By: S.G.



**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2,130 Cu. Yds.  
 Remaining Location = 11,150 Cu. Yds.  
**TOTAL CUT = 13,280 CU.YDS.**  
**FILL = 9,140 CU.YDS.**

EXCESS MATERIAL = 4,140 Cu. Yds.  
 Topsoil & Pit Backfill = 4,140 Cu. Yds.  
 (1/2 Pit Vol.)  
 EXCESS UNBALANCE = 0 Cu. Yds.  
 (After Interim Rehabilitation)

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EOG RESOURCES, INC.  
PRODUCTION FACILITY LAYOUT FOR

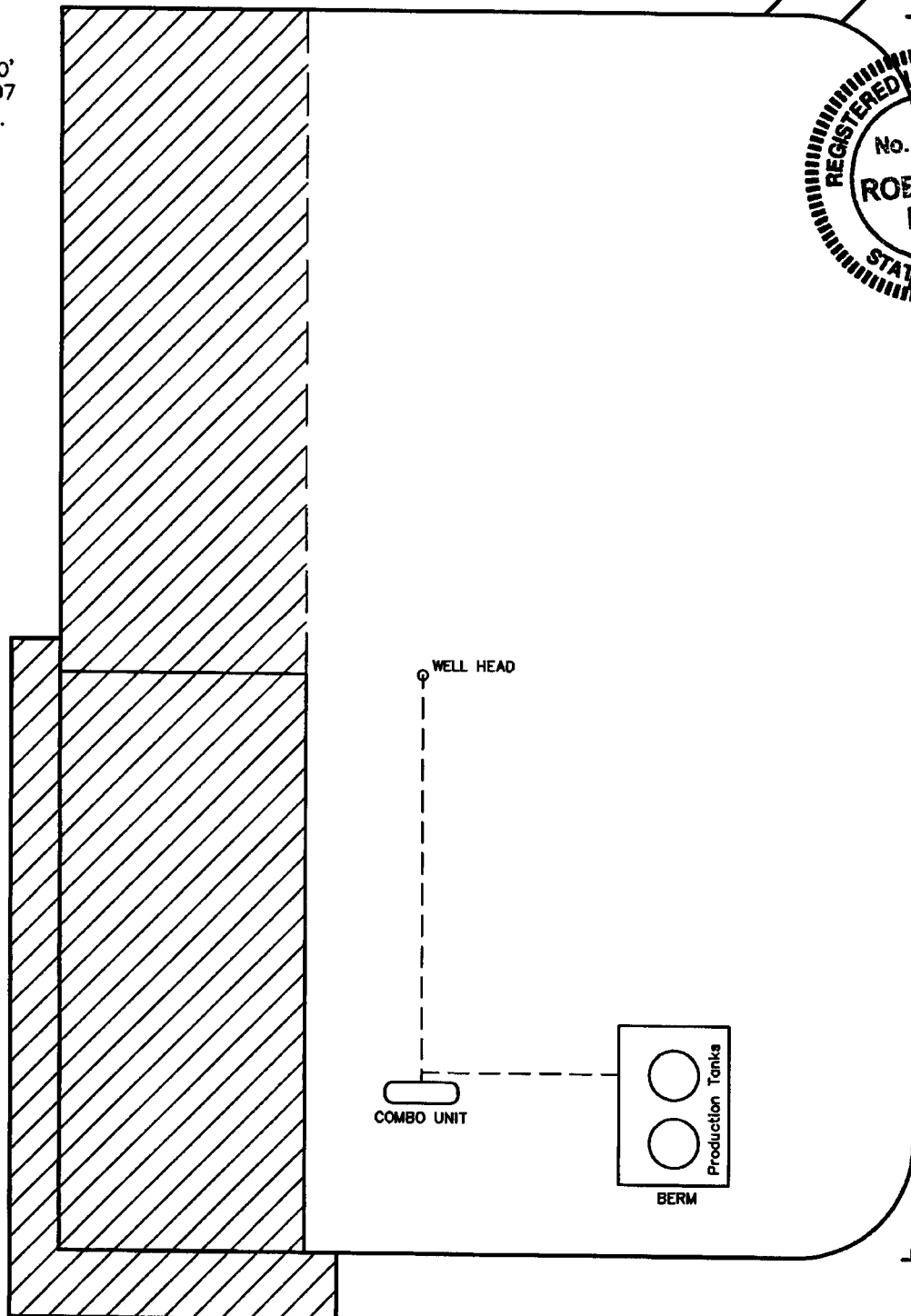
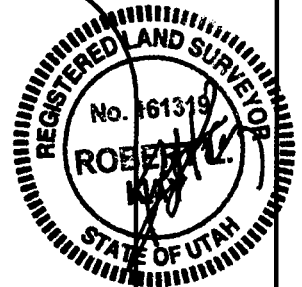
NBU #667-24E  
SECTION 24, T10S, R20E, S.L.B.&M.  
660' FSL 660' FEL

FIGURE #3



SCALE: 1" = 50'  
DATE: 10-23-07  
Drawn By: S.G.

Access  
Road



RE-HABED AREA

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# EOG RESOURCES, INC.

NBU #667-24E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 24, T10S, R20E, S.L.B.&M.

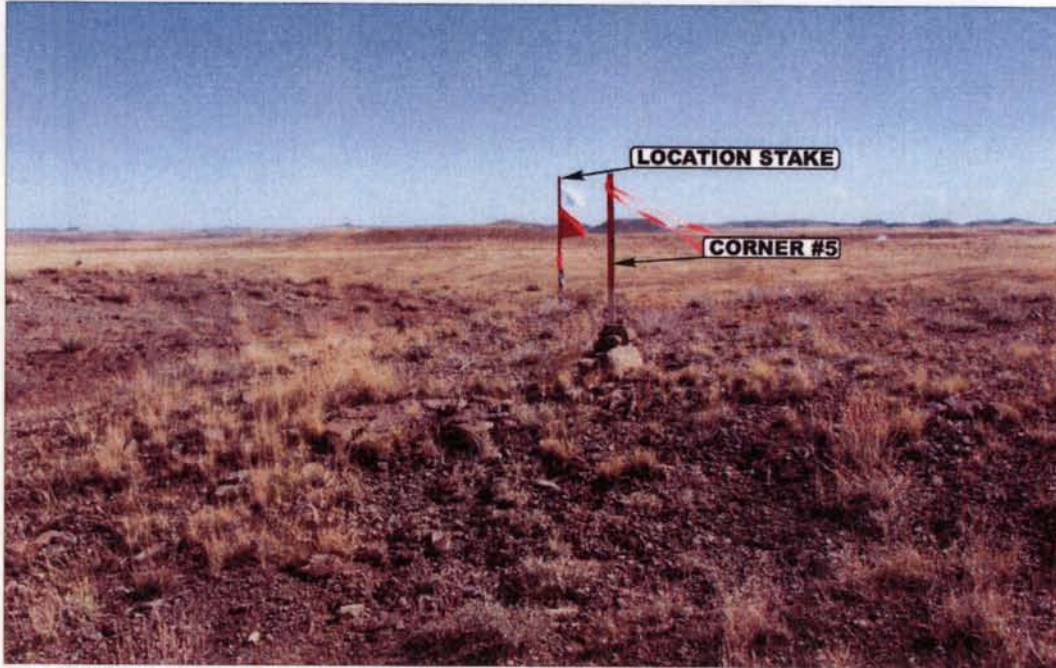


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

10 24 07  
MONTH DAY YEAR

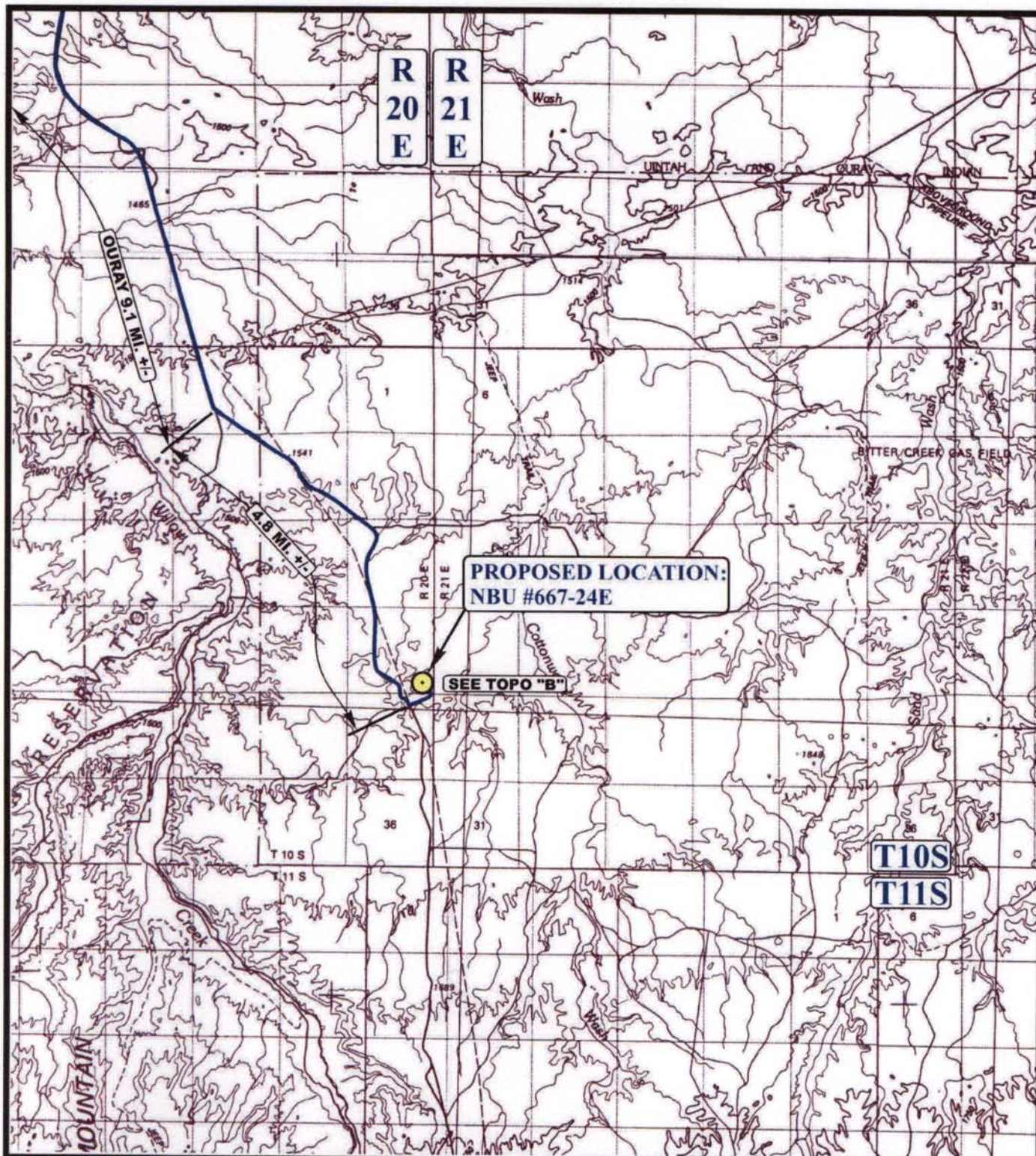
PHOTO

TAKEN BY: C.R.

DRAWN BY: C.P.

REVISED: 00-00-00





# **LEGEND:**

● PROPOSED LOCATION

**EOG RESOURCES, INC.**

NBU #667-24E  
SECTION 24, T10S, R20E, S.L.B.&M.  
660' FSL 660' FEL



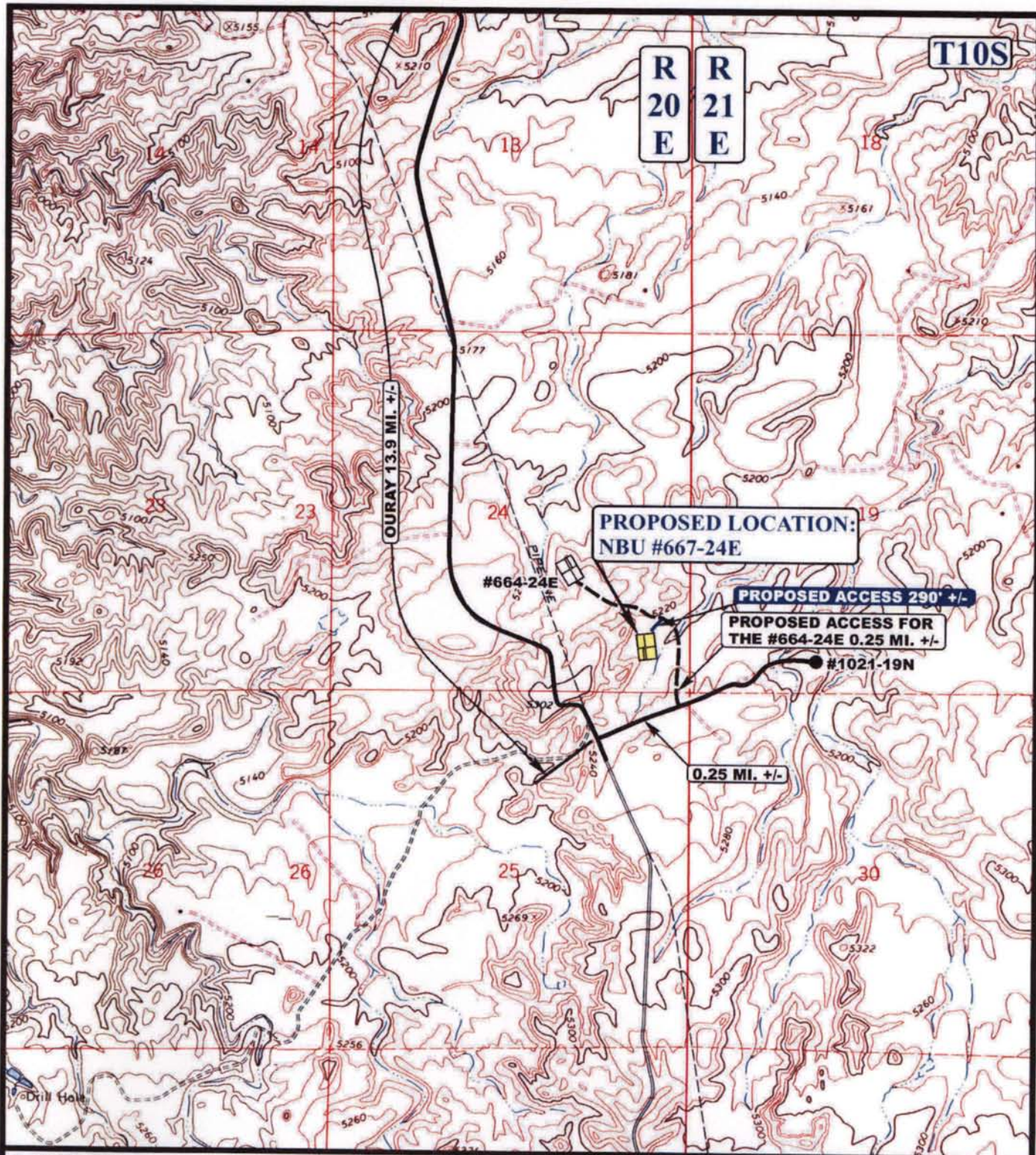
Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813





**TOPOGRAPHIC MAP**  
10 24 07  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00







# **LEGEND:**

 EXISTING ROAD  
 PROPOSED ACCESS ROAD

N

**EOG RESOURCES, INC.**

NBU #667-24E  
 SECTION 24, T10S, R20E, S.L.B.&M.  
 660' FSL 660' FEL



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**TOPOGRAPHIC**  
**MAP**

**10** **24** **07**  
 MONTH DAY YEAR

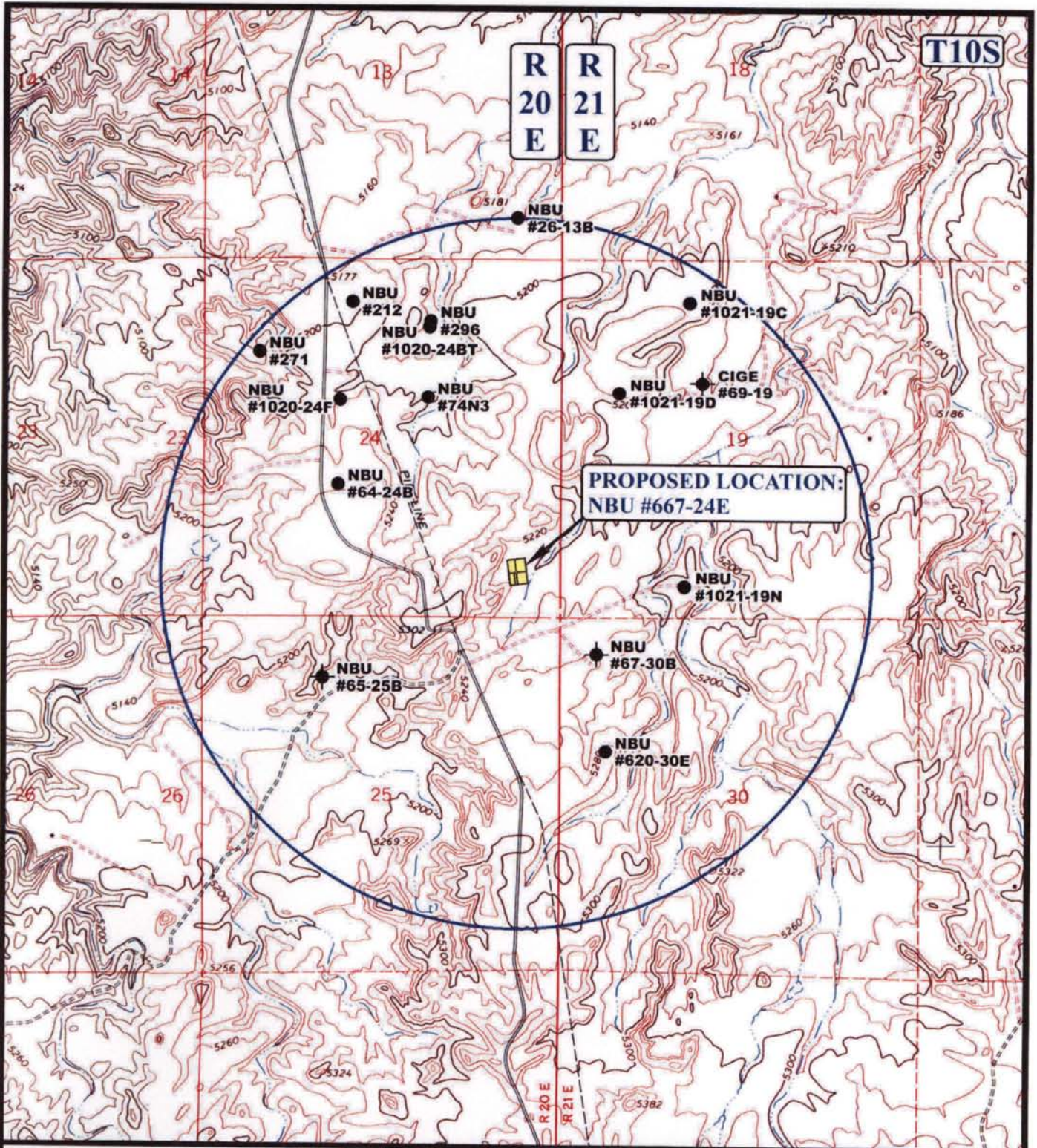
SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 00-00-00

**B**  
 TOPO





# **LEGEND:**

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

**EOG RESOURCES, INC.**

**NBU #667-24E**  
**SECTION 24, T10S, R20E, S.L.B.&M.**  
**660' FSL 660' FEL**



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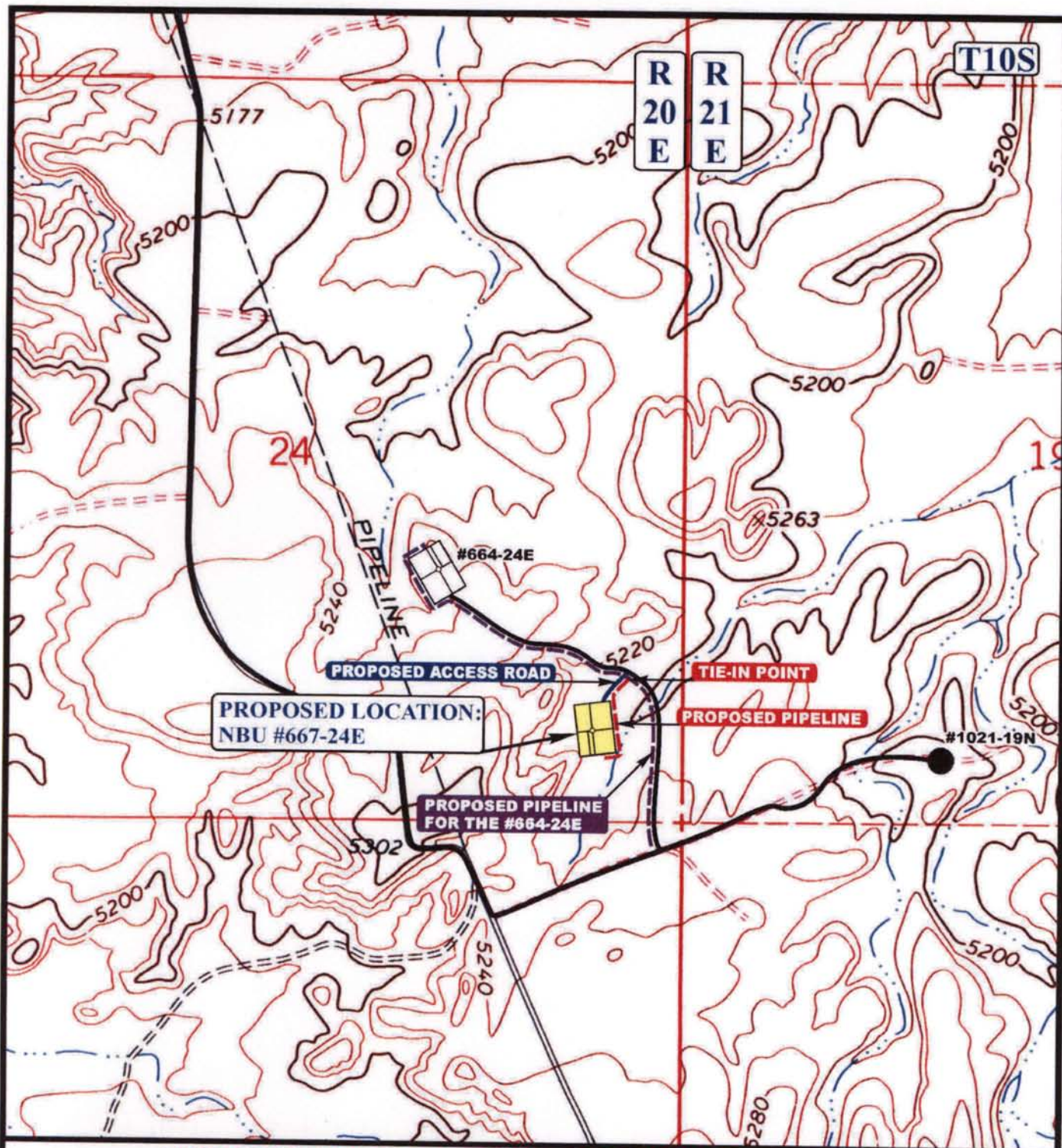


**TOPOGRAPHIC MAP**  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00

**10 24 07**  
 MONTH DAY YEAR







**APPROXIMATE TOTAL PIPELINE DISTANCE = 823' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

**EOG RESOURCES, INC.**

**NBU #667-24E**

**SECTION 24, T10S, R20E, S.L.B.&M.**

**660' FSL 660' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
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**TOPOGRAPHIC MAP**

**10 24 07**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

**D**  
**TOPO**

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/15/2007

API NO. ASSIGNED: 43-047-50012

WELL NAME: NBU 667-24E

OPERATOR: EOG RESOURCES, INC. ( N9550 )

PHONE NUMBER: 435 781-9111

CONTACT: Kaylene Gardner

**PROPOSED LOCATION:**

SESE 24 100S 200E

SURFACE: 0660 FSL 0660 FEL

BOTTOM: 0660 FSL 0660 FEL

COUNTY: UINTAH

LATITUDE: 39.92774 LONGITUDE: -109.6059

UTM SURF EASTINGS: 619135 NORTHINGS: 4420457

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DGD	1/4/08
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ML 22790

SURFACE OWNER: 3 - State

PROPOSED FORMATION: NHORN

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat  
☒ Bond: Fed[] Ind[] Sta[3] Fee[]  
(No. 6196017 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 49-225(A31 )  
☒ RDCC Review (Y/N)  
(Date: )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

**LOCATION AND SITING:**

       R649-2-3.  
Unit: NATURAL BUTTES *OK*  
       R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells  
       R649-3-3. Exception  
☒ Drilling Unit  
Board Cause No: 12314  
Eff Date: 12-2-199  
Siting: 460' fr ubdrsg & uncomm. Trails  
       R649-3-11. Directional Drill

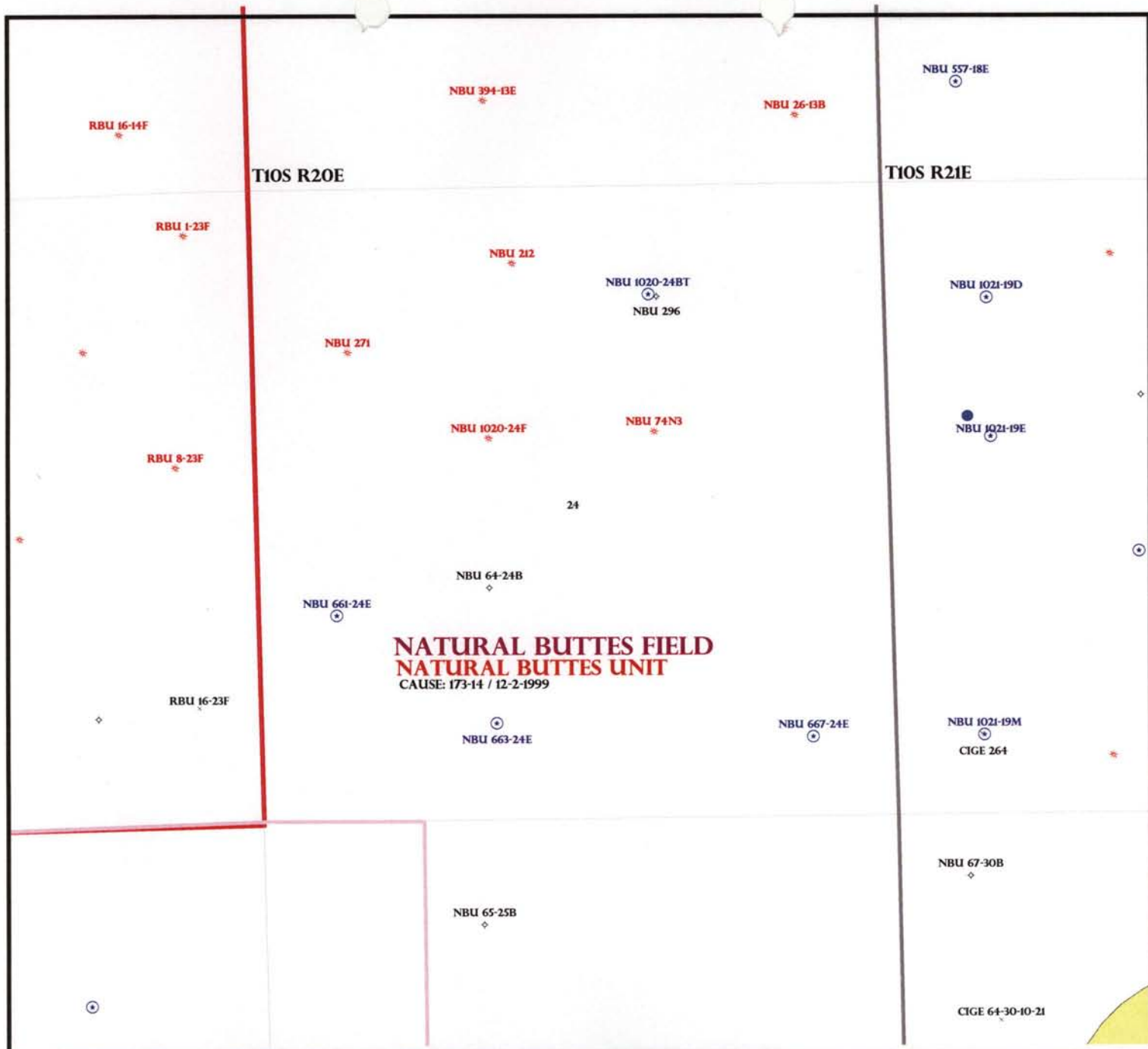
**COMMENTS:**

*Needs Permit (12-04-07)*

**STIPULATIONS:**

*1- Oil SHALE  
2- STATEMENT OF BASIS  
3- Surface Csg Cont Strip  
4- Cont strip #3 (4 1/2" production, 2100' MD)*





# **NATURAL BUTTES FIELD** **NATURAL BUTTES UNIT** CAUSE: 173-14 / 12-2-1999

OPERATOR: EOG RESOURCES INC (N9550)

SEC: 24 T.10S R. 20E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

**Field Status**  
 [Symbol] ABANDONED  
 [Symbol] ACTIVE  
 [Symbol] COMBINED  
 [Symbol] INACTIVE  
 [Symbol] PROPOSED  
 [Symbol] STORAGE  
 [Symbol] TERMINATED

**Unit Status**  
 [Symbol] EXPLORATORY  
 [Symbol] GAS STORAGE  
 [Symbol] NF PP OIL  
 [Symbol] NF SECONDARY  
 [Symbol] PENDING  
 [Symbol] PI OIL  
 [Symbol] PP GAS  
 [Symbol] PP GEOTHERML  
 [Symbol] PP OIL  
 [Symbol] SECONDARY  
 [Symbol] TERMINATED

**Wells Status**  
 [Symbol] GAS INJECTION  
 [Symbol] GAS STORAGE  
 [Symbol] LOCATION ABANDONED  
 [Symbol] NEW LOCATION  
 [Symbol] PLUGGED & ABANDONED  
 [Symbol] PRODUCING GAS  
 [Symbol] PRODUCING OIL  
 [Symbol] SHUT-IN GAS  
 [Symbol] SHUT-IN OIL  
 [Symbol] TEMP. ABANDONED  
 [Symbol] TEST WELL  
 [Symbol] WATER INJECTION  
 [Symbol] WATER SUPPLY  
 [Symbol] WATER DISPOSAL  
 [Symbol] DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
 DATE: 27-NOVEMBER-2007

# Application for Permit to Drill

## Statement of Basis

12/18/2007

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
610	43-047-50012-00-00	SITLA	GW	S	No
<b>Operator</b>	EOG RESOURCES, INC.		<b>Surface Owner-APD</b>		
<b>Well Name</b>	Natural Buttes Unit 667-24E		<b>Unit</b>	NATURAL BUTTES	
<b>Field</b>	NATURAL BUTTES		<b>Type of Work</b>	DRILL	
<b>Location</b>	SESE 24 10S 20E S 660 FSL 660 FEL GPS Coord (UTM) 619135E 4420457N				

### Geologic Statement of Basis

EOG proposes to set 2300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 5,200'. A search of Division of Water Rights records shows 3 water wells within a 10,000 foot radius of the center of section 24 . The wells are listed as industrial use wells for use in the oil shale industry and are approximately 1/2 mile to a mile from the proposed site. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought to above the base of the moderately saline groundwater in order to isolate it from fresher waters uphole.

Brad Hill

12/18/2007

APD Evaluator

Date / Time

### Surface Statement of Basis

The general area is approximately 45 miles southwest of Vernal, Utah and 14 miles south of Ouray, Utah in the west end of the Natural Buttes oil field unit. The Seep ridge road bisects the section. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek or northerly about 12 miles to the White River. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Both Willow Creek and White River contain perennial streams. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

The NBU # 667-24E proposed gas well is 14.3 miles southeast of Ouray and is accessed by the Uintah County Seep Ridge Road and existing or planned oil field development roads to within 290 feet of the site where a new road will be constructed.

The location is on a broken or hummocky east edge of a ridge. Sever small rises occur which generally run to the east. Drainages which transect the location will be diverted to the north and east around the pad. A drainage off the location to the east runs to the north. EOG plans to construct a small pond in the head of this drainage to catch the runoff for livestock and antelope.

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to the pre-site evaluation. Neither attended. Approximately 6 inches of snow covered the area. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

Daniel Emmett representing the UDWR stated the area is classified as yearlong crucial habitat for antelope but water not forage is the factor limiting the growth of the herd. He did not recommend any restrictions for this species. No other wildlife species are expected to be significantly affected. He furnished Byron Tolman representing EOG, a copy of his wildlife evaluation and a recommended seed mix to be used when the site is re-vegetated.



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# **Application for Permit to Drill**

## **Statement of Basis**

### **Utah Division of Oil, Gas and Mining**

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12/18/2007

Page 2

Floyd Bartlett  
**Onsite Evaluator**

12/4/2007  
**Date / Time**

#### **Conditions of Approval / Application for Permit to Drill**

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** EOG RESOURCES, INC.  
**Well Name** Natural Buttes Unit 667-24E  
**API Number** 43-047-50012-0 **APD No** 610 **Field/Unit** NATURAL BUTTES  
**Location:** 1/4,1/4 SESE **Sec** 24 **Tw** 10S **Rng** 20E 660 FSL 660 FEL  
**GPS Coord (UTM)** **Surface Owner**

### **Participants**

Floyd Bartlett (DOGM), Byron Tolman ( Agent for EOG), Daniel Emmett (Utah Division of Wildlife Resources)

### **Regional/Local Setting & Topography**

The general area is approximately 45 miles southwest of Vernal, Utah and 14 miles south of Ouray, Utah in the west end of the Natural Buttes oil field unit. The Seep ridge road bisects the section. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek or northerly about 12 miles to the White River. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Both Willow Creek and White River contain perennial streams. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

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Both the surface and minerals are owned by SITLA. Approximately 6 inches of snow covered the area. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

### **Surface Use Plan**

#### **Current Surface Use**

Grazing  
Recreational  
Wildlife Habitat

#### **New Road**

Miles	Well Pad	Src Const Material	Surface Formation
0.05	Width 276 Length 375	Onsite	UNTA

**Ancillary Facilities** N

### **Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetland** N

**Flora / Fauna**

Approximately 6 inches of snow covered the area. Identifiable plants included broom snakeweed, shadscale and Gardner saltbrush.

Antelope, coyotes, rabbits and miscellaneous small mammals and birds.

**Soil Type and Characteristics**

Shallow sandy clay loam with some small surface rock is the probable surface soil.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required**

Drainages which transect the location will be diverted to the north and east around the pad.

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?** N

**Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		25    1 <b>Sensitivity Level</b>

**Characteristics / Requirements**

A 75' x 175' x 10' deep reserve pit is planned in an area of cut on the southwest corner of the location. It will be lined with a 16-mil liner with an appropriate thickness of felt sub- liner.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?** Y

**Other Observations / Comments**

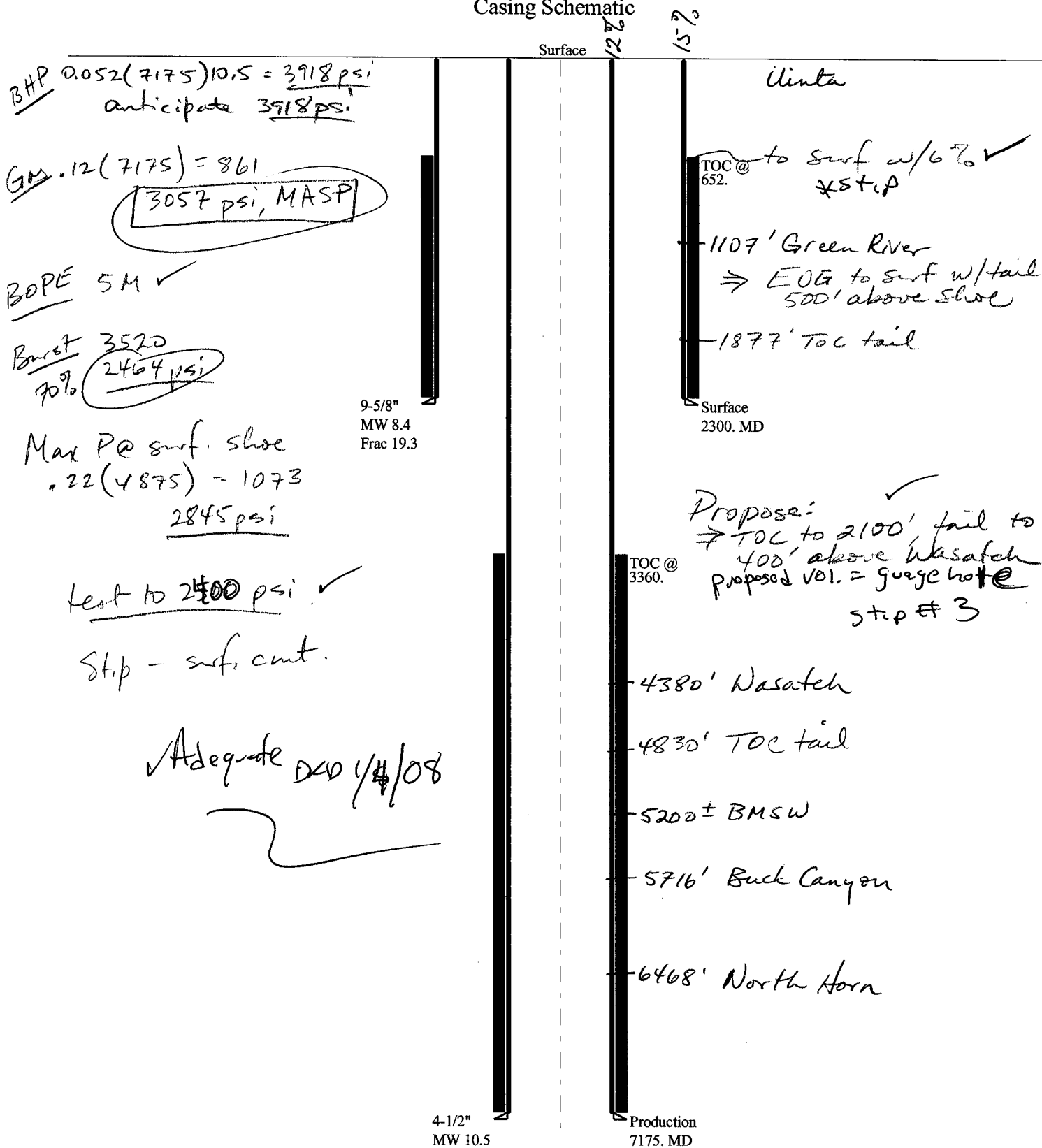
ATV's were used to access the site.

GPS was not working. Center Stake location was not recorded.

Floyd Bartlett  
Evaluator

12/4/2007  
Date / Time

## Casing Schematic



Well name:

**2007-12 EOG NBU 667-24E**Operator: **EOG Resources Inc.**String type: **Surface**

Project ID:

43-047-50012

Location: **Uintah County****Design parameters:****Collapse**Mud weight: 8.400 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 107 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 290 ft

Cement top: 652 ft

**Burst**Max anticipated surface  
pressure: 2,024 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,300 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)Tension is based on buoyed weight.  
Neutral point: 2,014 ft**Non-directional string.****Re subsequent strings:**Next setting depth: 7,175 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 3,914 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,300 ft  
Injection pressure: 2,300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2300	9.625	36.00	J-55	ST&C	2300	2300	8.796	998.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1004	2020	2.013	2300	3520	1.53	73	394	5.43 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & MineralsPhone: 801-538-5357  
FAX: 801-359-3940Date: December 28, 2007  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 2300 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

**2007-12 EOG NBU 667-24E**Operator: **EOG Resources Inc.**

String type: Production

Project ID:

43-047-50012

Location: Uintah County

**Design parameters:****Collapse**

Mud weight: 10.500 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 175 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 3,360 ft

**Burst**

Max anticipated surface pressure: 2,335 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,914 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on buoyed weight.

Neutral point: 6,049 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7175	4.5	11.60	N-80	LT&C	7175	7175	3.875	626.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3914	6350	1.623	3914	7780	1.99	70	223	3.18 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: December 28, 2007  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7175 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 6/10/2008 11:29 AM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Jarvis, Dan

The following wells have been given cultural resources and paleontological resources clearance by the Trust Lands Administration:

EOG Resources, Inc

NBU 662-24E (API 43 047 50017)  
NBU 665-24E (API 43 047 50018)  
CWU 1376-32 (API 43 047 50020)  
CWU 1390-32 (API 43 047 50021)  
CWU 1377-32 (API 43 047 50022)  
NBU 691-29E (API 43 047 50027)  
NBU 669-29E (API 43 047 50030)  
NBU 667-24E (API 43 047 50012)  
CWU 743-02 (API 43 047 50023)

If you have any questions regarding this matter please give me a call.



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 18, 2008

EOG Resources, Inc.  
1060 East Highway 40  
Vernal, UT 84078

Re: NBU 667-24E Well, 660' FSL, 660' FEL, SE SE, Sec. 24, T. 10 South, R. 20 East,  
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-50012.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office  
SITLA



Operator: EOG Resources, Inc.  
Well Name & Number NBU 667-24E  
API Number: 43-047-50012  
Lease: ML-22790

Location: SE SE Sec. 24 T. 10 South R. 20 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple (See Attached)
2. NAME OF OPERATOR: EOG Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1060 E. HWY 40 Vernal UT 84078		7. UNIT or CA AGREEMENT NAME: Natural Buttes Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: Multiple (See Attached) QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 43 047 50012 NB 1/4 66 7-24E 10S 20E 24		8. WELL NAME and NUMBER: Multiple (See Attached)
PHONE NUMBER: (435) 789-0790		9. API NUMBER: Multiple (See Attached)
COUNTY: Uintah, UT		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: Air Drilling Variance Request
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests authorization for air drilling operations, see attached.

COPY SENT TO OPERATOR

Date: 10.14.2008

Initials: KS

NAME (PLEASE PRINT) Mickenzie Thacker	TITLE Operations Clerk
SIGNATURE <i>Mickenzie Thacker</i>	DATE 9/17/2008

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 10/17/08  
BY: *[Signature]*

RECEIVED

SEP 22 2008

DIV. OF OIL, GAS & MINING

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. Surface casing shall be cemented to the surface.
7. Cement volume for the 4-1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2100' MD as indicated in the submitted drilling plan.
8. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

API #	Lease #	Well Name	Footages	¼-¼ Legal Description
43-047-39309	ML-22793	NBU 620-30E	1980' FNL 680' FWL	SWNW Sec. 30 T10S R21E
43-047-50019	UTU-08512-ST	NBU 639-13E	859' FNL 1902' FEL	NWNE Sec. 13 T10S R22E
43-047-50017	ML-22790	NBU 662-24E	809' FSL 807' FWL	SWSW Sec. 24 T10S R20E
43-047-39867	ML-22790	NBU 664-24E	1810' FSL 1781' FEL	NWSE Sec. 24 T10S R20E
43-047-50018	ML-22790	NBU 665-24E	1950' FSL 660' FEL	NESE Sec. 24 T10S R20E
43-047-50012	ML-22790	NBU 667-24E	660' FSL 660' FEL	SESE Sec. 24 T10S R20E
43-047-50030	UO-1207-ST	NBU 669-29E	1927' FNL 1980' FEL	SWNE Sec. 29 T9S R22E
43-047-50027	UO-1207-ST	NBU 691-29E	680' FNL 797' FEL	NENE Sec. 29 T9S R22E

### **Air Drilling Operations:**

1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

### **VARIANCE REQUESTS:**

#### **Reference: Onshore Oil and Gas Order No. 1**

#### **Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations**

1. EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
2. EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
3. EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
4. EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
5. EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22790
2. NAME OF OPERATOR: EOG Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Natural Buttes
3. ADDRESS OF OPERATOR: 1060 East Highway 40 Vernal UT 84078		7. UNIT or CA AGREEMENT NAME: Natural Buttes
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FSL & 660' FEL 39.927672 LAT 109.606539 LON QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 24 10S 20E S		8. WELL NAME and NUMBER: Natural Buttes Unit 667-24E
PHONE NUMBER: (435) 789-0790		9. API NUMBER: 43-047-50012
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Change Conductor</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Size</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EOG Resources, Inc. respectfully requests authorization to change the conductor size as follows:

Casing: Conductor  
Hole Size: 26"  
Length: 40-60'  
Size: 16"  
Weight: 65.0#  
Grade: H-40  
Thread: STC  
Rating Collapse: 670 PSI  
Factor Burst: 1640 PSI  
Tensile: 736#

COPY SENT TO OPERATOR

Date: 1.27.2009

Initials: KS

NAME (PLEASE PRINT) <u>Mickenzie Thacker</u>	TITLE <u>Operations Clerk</u>
SIGNATURE <u>Mickenzie Thacker</u>	DATE <u>1/7/2009</u>

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 1/28/09 (See instructions on Reverse Side)

BY: [Signature]

(5/2000)

RECEIVED

JAN 12 2009

DIV. OF OIL, GAS & MINING

## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: EOG RESOURCES INC

Well Name: NBU 667-24E

Api No: 43-047-50012 Lease Type: STATE

Section 24 Township 10S Range 20E County UINTAH

Drilling Contractor CRAIG'S ROUSTABOUT SERV RIG # RATHOLE

### **SPUDDED:**

Date 01/28/2009

Time 10:30 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by JERRY BARNES

Telephone # (435) 828-1720

Date 01/28/2009 Signed CHD

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: EOG RESOURCES Operator Account Number: N 9550  
Address: 1060 East Highway 40  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-9145

**Well 1**

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-047-39450	CHAPITA WELLS UNIT 1286-23	SENE	23	9S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<u>KB</u>	99999	<u>13650</u>	1/27/2009	<u>2/10/09</u>		
Comments: <u>MESAVERDE</u>						

**Well 2**

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-047-50010	NATURAL BUTTES UNIT 663-24E	SESW	24	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<u>KB</u>	99999	<u>2900</u>	1/30/2009	<u>2/10/09</u>		
Comments: <u>WASATCH = WSMVD</u>						

**Well 3**

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-047-50012	NATURAL BUTTES UNIT 667-24E	SESE	24	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<u>KB</u>	99999	<u>2900</u>	1/28/2009	<u>2/10/09</u>		
Comments: <u>WASATCH</u> <u>NHORN = WSTC = WSMVD</u>						

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Mickenzie Thacker

Name (Please Print)

Signature

Operations Clerk

Title

2/3/2009

Date

**RECEIVED**

**FEB 04 2009**

DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22790
2. NAME OF OPERATOR: EOG Resources, Inc.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1060 East Highway 40 Vernal UT 84078	7. UNIT or CA AGREEMENT NAME: Natural Buttes
PHONE NUMBER: (435) 789-0790	8. WELL NAME and NUMBER: Natural Buttes Unit 667-24E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 660' FSL & 660' FEL 39.927672 LAT 109.606539 LON	9. API NUMBER: 43-047-50012
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 24 10S 20E S	10. FIELD AND POOL, OR WILDCAT: Natural Buttes

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Well Spud
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The referenced well was spud on 1/28/2009.

NAME (PLEASE PRINT) Mickenzie Thacker TITLE Operations Clerk  
SIGNATURE *Mickenzie Thacker* DATE 2/3/2009

(This space for State use only)

RECEIVED  
FEB 05 2009

<div>STATE OF UTAH</div> <div>DEPARTMENT OF NATURAL RESOURCES</div> <div>DIVISION OF OIL, GAS, AND MINING</div>		<div>FORM 9</div> <div>5.LEASE DESIGNATION AND SERIAL NUMBER: ML 22790</div>	
<div>SUNDRY NOTICES AND REPORTS ON WELLS</div> <div>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.</div>		<div>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</div> <div>7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES</div>	
<div>1. TYPE OF WELL</div> <div>Gas Well</div>		<div>8. WELL NAME and NUMBER:</div> <div>NBU 667-24E</div>	
<div>2. NAME OF OPERATOR:</div> <div>EOG Resources, Inc.</div>		<div>9. API NUMBER:</div> <div>43047500120000</div>	
<div>3. ADDRESS OF OPERATOR:</div> <div>1060 East Highway 40 , Vernal, UT, 84078</div>		<div>PHONE NUMBER:</div> <div>435 781-9111 Ext</div>	
<div>4. LOCATION OF WELL</div> <div>FOOTAGES AT SURFACE:</div> <div>0660 FSL 0660 FEL</div> <div>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</div> <div>Qtr/Qtr: SESE Section: 24 Township: 10.0S Range: 20.0E Meridian: S</div>		<div>9. FIELD and POOL or WILDCAT:</div> <div>NATURAL BUTTES</div> <div>COUNTY:</div> <div>UINTAH</div> <div>STATE:</div> <div>UTAH</div>	
<div>11.</div> <div>CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</div>			
<div>TYPE OF SUBMISSION</div> <div><input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:</div> <div><input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:</div> <div><input type="checkbox"/> SPUD REPORT Date of Spud:</div> <div><input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/29/2009</div>		<div>TYPE OF ACTION</div> <div> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION </div> <div>OTHER:  </div>	
<div>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</div> <div>Completion operations began on 5/29/2009. Please see the attached well chronology for the referenced well.</div> <div> <div>Accepted by the Utah Division of Oil, Gas and Mining</div> <div>FOR RECORD ONLY</div> <div>June 01, 2009</div> </div>			
<div>NAME (PLEASE PRINT)</div> <div>Kaylene Gardner</div>		<div>PHONE NUMBER</div> <div>435 781-9111</div>	
<div>SIGNATURE</div> <div>N/A</div>		<div>TITLE</div> <div>Regulatory Administrator</div> <div>DATE</div> <div>5/29/2009</div>	

# WELL CHRONOLOGY REPORT

Report Generated On: 05-29-2009

<b>Well Name</b>	NBU 667-24E	<b>Well Type</b>	DEVG	<b>Division</b>	DENVER
<b>Field</b>	NATURAL BUTTES	<b>API #</b>	43-047-50012	<b>Well Class</b>	COMP
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	02-14-2009	<b>Class Date</b>	
<b>Tax Credit</b>	N	<b>TVD / MD</b>	7,175/ 7,175	<b>Property #</b>	062374
<b>Water Depth</b>	0	<b>Last CSG</b>	4.5	<b>Shoe TVD / MD</b>	7,165/ 7,165
<b>KB / GL Elev</b>	5,226/ 5,213				
<b>Location</b>	Section 24, T10S, R20E, SESE, 660 FSL & 660 FEL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL & COMPLETE		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	66.67	<b>NRI %</b>	49.395

AFE No		306046		AFE Total		1,277,435		DHC / CWC		567,835/ 709,600													
Rig Contr		ELENBURG		Rig Name		ELENBURG #29		Start Date		08-19-2008		Release Date		02-18-2009									
08-19-2008		Reported By		SHEILA MALLOY																			
DailyCosts: Drilling		\$0		Completion		\$0		Daily Total		\$0													
Cum Costs: Drilling		\$0		Completion		\$0		Well Total		\$0													
MD		0		TVD		0		Progress		0		Days		0		MW		0.0		Visc		0.0	
Formation :				PBTD : 0.0				Perf :				PKR Depth : 0.0											

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION DATA
			660' FSL & 660' FEL (SE/SE)
			SECTION 24, T10S, R20E
			UINTAH COUNTY, UTAH
			LAT 39.927672, LONG 109.606539 (NAD 83)
			LAT 39.927708, LONG 109.605850 (NAD 27)
			ELENBURG #29
			OBJECTIVE: 7175' TD, WASATCH
			DW/GAS
			NATURAL BUTTES PROSPECT
			DD&A: NATURAL BUTTES
			NATURAL BUTTES FIELD
			LEASE: ML-22790
			ELEVATION: 5215.9' NAT GL, 5213.2' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 5213') 5226' KB (13')
			EOG WI 66.67%, NRI 49.394976%

**01-13-2009**      **Reported By**      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Daily Total</b>	\$75,000
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION STARTED.

01-14-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 5% COMPLETE.

01-15-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 20% COMPLETE.

01-16-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 35% COMPLETE.

01-19-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	ROCKED OUT. DRILLING ROCK.

01-20-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

01-21-2009 Reported By TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

01-22-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

01-23-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SHOOT LOCATION.

01-26-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	PUSHING ON LOCATION.

01-27-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	PUSHING ON LOCATION.

01-28-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	60	<b>TVD</b>	60	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LINE TODAY. CRAIG'S ROUSTABOUT SERVICE SPUD A 26" HOLE ON 1/28/09 @ 10:30 AM. SET 60' OF 16" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. JERRY BARNES NOTIFIED CAROL DANIELS W/UDOGM AND MICHAEL LEE W/BLM OF THE SPUD 1/28/09 @ 09:15 AM.

01-29-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	60	<b>TVD</b>	60	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION IS COMPLETE.

02-04-2009 Reported By LES FARNSWORTH

<b>DailyCosts: Drilling</b>	\$236,708	<b>Completion</b>	\$0	<b>Daily Total</b>	\$236,708
<b>Cum Costs: Drilling</b>	\$311,708	<b>Completion</b>	\$0	<b>Well Total</b>	\$311,708
<b>MD</b>	2,427	<b>TVD</b>	2,427	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	MIRU CRAIGS DRILLING RIG # 3 ON 1/28/2009. DRILLED 12-1/4" HOLE TO 2414' GL (2427' KB). ENCOUNTERED NO WATER. RAN 57 JTS (2406.37') OF 9-5/8", 36.0#, J-55, STC CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 8 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. TAGGED BOTTOM @ 2414' WITH JOINT # 58 LAIED DOWN JOINT # 58. LANDED @ 2419' KB. RAN 200' OF 1" PIPE DOWN BACKSIDE. RDMO CRAIGS RIG.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 2400 PSIG. PUMPED 186 BBLs FRESH WATER & 20 BBLs GELLED WATER FLUSH AHEAD OF CEMENT. MIXED & PUMPED 250 SX (183 BBLs) OF PREMIUM LEAD CEMENT W/ 0.2% VARASET, 2% CALSEAL, & 2% EX-1. MIXED LEAD CEMENT @ 10.5 PPG W/YIELD OF 4.10 CF/SX.

TAILED IN W/ 300 SX (63 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED TAIL CEMENT TO 15.6 W/YIELD OF 1.18 CF/SX. DISPLACED CEMENT W/183 BBLs FRESH WATER. BUMPED PLUG W/ 711# @ 10:20 PM, 2/2/2009. CHECKED FLOAT, FLOAT HELD. SHUT-IN CASING VALVE. BROKE CIRCULATION 130 BBLs INTO FRESH WATER FLUSH. LOST CIRCULATION 170 BBLs INTO DISPLACEMENT. NO RETURNS WHEN PLUG BUMPED.

TOP JOB # 1: PUMP DOWN 200' OF 1" PIPE. MIXED & PUMPED 100 SX (21 BBLs) OF PREMIUM CEMENT W/2 % CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. NO RETURNS. WOC 3 HRS 30 MINUTES.

TOP JOB # 2: MIXED & PUMPED 100 SX (21 BBLs) OF PREMIUM CEMENT W/2 % CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. HOLE FILLED & STOOD FULL. RDMO HALLIBURTON CEMENTERS.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIGS RIG #3 TOOK SURVEYS WHILE DRILLING HOLE @ 1461' = 1.0 DEGREE & 2392' = 2.0 DEGREE.

CONDUCTOR LEVEL RECORD: PS= 89.8 OPS= 89.9 VDS= 89.9 MS= 89.9

9 5/8 CASING LEVEL RECORD: PS= 89.9 OPS= 89.9 VDS= 89.8 MS= 89.8

DAN FARNSWORTH NOTIFIED UDOGM ROOSEVELT OFFICE BY PHONE OF THE SURFACE CASING & CEMENT JOB ON 1/30/2009 @ 11:30 AM.

02-14-2009		Reported By		DUANE C WINKLER							
Daily Costs: Drilling		\$55,836		Completion		\$0		Daily Total		\$55,836	
Cum Costs: Drilling		\$367,523		Completion		\$0		Well Total		\$367,523	
MD	2,427	TVD	2,427	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation :			PBTD : 0.0			Perf :			PKR Depth : 0.0		
Activity at Report Time: DRILLING SHOE TRACK											
Start	End	Hrs	Activity Description								
06:00	20:00	14.0	MIRU RIG AND RURT								
20:00	00:00	4.0	NIPPLE UP BOPE, 2/13/2009 DAY WORK STARTED @ 2000 HRS								
00:00	03:00	3.0	TEST BOPS/DIVERTER, TEST ALL VALVES ON CHOKE MANIFOLD, CHOKE LINE AND KILL LINE TESTED RAMS AND HYDRIL AND CASING, ALL 5K EQUIPMENT TO 5,000 HIGH AND 250 LOW, HYDRIL 2,500 HIGH AND 250 LOW, CASING TO 1,500, ALL TESTED.								
03:00	05:00	2.0	TRIP IN HOLE WITH BHA								
05:00	06:00	1.0	INSTALL ROTATING RUBBER, TAG CMT								
			EMAILED BLM VERNAL JAMIE SPARGER ON 2/12/2009 RIG MOVE ON 2/13/2009 TO 667-24E @ 0730 AND BOPE TEST 1600 HRS, TRANSFERED FROM NBU 664-24E TO NBU 667-24E 3 JTS 4.5 N80 X 11.6 X LTC CASING (122.32') AND 4 JTS 4.5 P110 X 11.6# LTC (175.51), 4274 GLS DIESEL, RIG MOVE IS APPROXIMATELY 1 MILE								
			NO ACCIDENTS / INCIDENTS								
			NO RIG REPAIRS:								
			FULL CREWS								
			SAFETY MEETING # 1 RDRT								
			SAFETY MEETING # 2 THIRD PARTY SAFETY MEETING								
			FUEL ON HAND 4274 GLS,								
			TEST CROWN-O-MATIC, BOP DRILL								
			UNMANNED LOGGER DAY 1								

02-15-2009      Reported By      D WINKLER, P AYOTTE

<b>Daily Costs: Drilling</b>	\$39,403	<b>Completion</b>	\$0	<b>Daily Total</b>	\$39,403
<b>Cum Costs: Drilling</b>	\$406,926	<b>Completion</b>	\$0	<b>Well Total</b>	\$406,926

<b>MD</b>	5,026	<b>TVD</b>	5,026	<b>Progress</b>	2,599	<b>Days</b>	1	<b>MW</b>	9.9	<b>Visc</b>	33.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: DRILLING @ 5026'

Start	End	Hrs	Activity Description
06:00	06:30	0.5	DRILL CMT FLOAT EQUPT, 10' NEW HOLE
06:30	07:00	0.5	SURVEY 2380' @ 2.5 DEGREE, PERFORM FIT TEST, PRESSURE WITH WATER TO 400 PSIG, EMW 11.4 PPG
07:00	12:00	5.0	DRILL FROM 2427' TO 3257', 830' AT 166'/HR, 15-18K WOB, 50-55 RRPM, 68 MMRPM, 1300 PSI AT 125 STROKES, OFF BOTTOM, #2 PUMP, 100-300 PSI DIFFERENTIAL, 426 GPM, MUD WT 9.2, 30 VIS.
12:00	12:30	0.5	RIG SERVICE
12:30	15:00	2.5	DRILL FROM 3257' TO 3484', 227' AT 90.8'/HR, SAME PARAMETERS AS ABOVE.
15:00	15:30	0.5	SURVEY AT 3439', 2.5*
15:30	21:00	5.5	DRILL FROM 3484' TO 4164, 680' AT 123.5'/HR, SAME PARAMETERS AS ABOVE. MUD WT 9.3, VIS 31.
21:00	22:00	1.0	CHANGE OUT SWIVEL PACKING.
22:00	22:30	0.5	DRILL FROM 4154' TO 4255', 101' AT 202'/HR. SAME PARAMETERS AS ABOVE.
22:30	23:00	0.5	SURVEY AT 4209', 2.5*
23:00	06:00	7.0	DRILL FROM 4255' TO 5206', 951' AT 135'.9'/HR, 15-19K WOB, 50-55 RRPM, 68 MMRPM, 1550 PSI AT 125 STROKES, OFF BOTTOM, #2 PUMP, 100-300 PSI DIFFERENTIAL, 426 GPM.

NO ACCIDENTS, SHORT 1 HAND ON DAYS, EVENING AND MORNING TOUR.

SAFETY MEETINGS ON RIG SERVICE AND SURVEYS (2).

FUEL ON HAND 6598 GALS, 2424 GALS USED.

MUD WT 9.9, VIS 33

OPERATE COM (3)

BG GAS 150U, CONN GAS 150U, HIGH GAS 5000U AT 4875'.

UNMANNED LOGGER, DAY 2.

NOTIFIED CAROL DANIELS WITH THE STATE AT 1400HRS, 2/14/2009, VIA PHONE MESSAGE ON SPUD.

NO FLARES OR FLOW.

06:00      SPUD A 7 7/8" HOLE W/ ROTARY TOOL @ 07:00 HRS, 2/14/2009.

02-16-2009      Reported By      PETE AYOTTE

<b>Daily Costs: Drilling</b>	\$38,831	<b>Completion</b>	\$0	<b>Daily Total</b>	\$38,831
<b>Cum Costs: Drilling</b>	\$445,758	<b>Completion</b>	\$0	<b>Well Total</b>	\$445,758

<b>MD</b>	6,794	<b>TVD</b>	6,794	<b>Progress</b>	1,898	<b>Days</b>	2	<b>MW</b>	10.6	<b>Visc</b>	35.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: DRILLING @ 6794'

Start	End	Hrs	Activity Description
06:00	11:30	5.5	DRILL FROM 5026' TO 5570', 540' AT 98.9'/HR, 17-20K WOB, 50-55 RRPM, 68 MMRPM, 1600 PSI AT 125 STROKES, OFF BOTTOM, 100-325 PSI DIFFERENTIAL, #2 PUMP, 426 GPM, 10.3 MUD WT, 36 VIS.
11:30	12:00	0.5	RIG SERVICE
12:00	06:00	18.0	DRILL FROM 5570' TO 6794', 1224' AT 68'HR, SAME PARAMETERS AS ABOVE.



NO ACCIDENTS, SHORT 1 HAND ON DAYS, EVENING AND MORNING TOUR.  
 SAFETY MEETINGS ON BOOM INSPECTION(3).  
 FUEL ON HAND 4700 GALS, 1898 GALS USED.  
 MUD WT 10.6, VIS 37  
 OPERATE COM (3)  
 BUCK CANYON TOP AT 5713', NORTH HORN TOP AT 6465'.  
 BG GAS 100U, CONN GAS 100U, HIGH GAS 6250U AT 5675'.  
 UNMANNED LOGGER, DAY 3 .  
 BOILER 24 HRS.  
 NO FLARES OR FLOW

02-17-2009		Reported By		PETE AYOTTE							
DailyCosts: Drilling		\$41,054		Completion		\$6,447		Daily Total		\$47,501	
Cum Costs: Drilling		\$486,812		Completion		\$6,447		Well Total		\$493,259	
MD	7,175	TVD	7,175	Progress	381	Days	3	MW	11.0	Visc	38.0
Formation :		PBTD : 0.0				Perf :		PKR Depth : 0.0			
Activity at Report Time: LD BHA											

Start	End	Hrs	Activity Description
06:00	08:00	2.0	DRILL FROM 6794' TO 6890', 96' AT 48'/HR. 15-20K WOB, 50-55 RRPM, 68 MMRPM, 1950 PSI AT 125 STROKES, OFF BOTTOM, #2 PUMP, 100-325 PSI DIFFERENTIAL, MUD WT 10.6, VIS 38
08:00	11:30	3.5	LAY DOWN 2 SINGLES, CIRCULATE, WORK ON SWIVEL PACKING HOUSING, 5 OF 7 BOLTS BROKE ON HOUSING. REPLACE "O" RING, TAP OUT BOLTS AND REPLACE SAME.
11:30	16:00	4.5	DRILL FROM 6890' TO 7066', 176' AT 39.1'/HR, SAME PARAMETERS AS ABOVE, MUD WT 10.8, VIS 37.
16:00	16:30	0.5	RIG SERVICE, REPLACE OIL IN SWIVEL.
16:30	19:30	3.0	DRILL FROM 7066' TO 7175', 109' AT 36.3'/HR, SAME PARAMETERS AS ABOVE. MUD WT 11, VIS 37. REACHED TD @ 19:30 HRS, 2/16/2009.
19:30	20:00	0.5	CIRCULATE, PUMP 30 BBL 50 VIS SWEEP.
20:00	20:30	0.5	SHORT TRIP 10 JOINTS, (450'), HOLE SLICK
20:30	21:30	1.0	CIRCULATE, PUMP 30 BBL, 50 VIS SWEEP, MIX AND PUMP 90 BBL, 13# PILL, EQUIVALENT TO 11.3 PPG AT BOTTOM. DROP SURVEY
21:30	06:00	8.5	LAY DOWN PIPE AND BHA, TIGHT FROM 4500' TO 2500'. CASING POINT AT 2130 HRS, 2/16/2009.

NO ACCIDENTS, SHORT 1 HAND ON DAYS AND EVENING  
 SAFETY MEETINGS ON WORKING ON SWIVEL AND RIG SERVICE(2).  
 FUEL ON HAND 7110 GALS, 2005 GALS USED. RECEIVED 4415 GALS.  
 MUD WT 11, VIS 37  
 OPERATE COM (3)  
 BG GAS 100U, CONN GAS 100U.  
 UNMANNED LOGGER, DAY 4 .  
 BOILER 24 HRS.  
 NO FLARES OR FLOW  
 NOTIFIED DAN JARVIS, WITH THE STATE OF UTAH, OF CASING RUN AND CEMENTING AT 1500 HRS, 2/16/2009, VIA PHONE MESSAGE. NOTIFIED BLM VIA EMAIL.

02-18-2009	Reported By	PETE AYOTTE			
DailyCosts: Drilling	\$45,875	Completion	\$165,845	Daily Total	\$211,720

<b>Cum Costs: Drilling</b>	\$532,687	<b>Completion</b>	\$172,292	<b>Well Total</b>	\$704,979
<b>MD</b>	7,175	<b>TVD</b>	7,175	<b>Progress</b>	0
		<b>Days</b>	4	<b>MW</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>		<b>PKR Depth : 0.0</b>	

**Activity at Report Time:** RDRT/NO COMPLETION

Start	End	Hrs	Activity Description
06:00	07:00	1.0	LAY DOWN BHA, OPERATE PIPE AND BLIND RAMS
07:00	07:30	0.5	PULL WEAR BUSHING
07:30	08:30	1.0	HOLD SAFETY MEETING. RIG UP CALIBER CASERS.
08:30	15:30	7.0	RUN CASING AS FOLLOWS: RAN 168 JOINTS OF 4.5", 11.6#, LTC, HCP-110 CASING. SET MARKER TOPS AT 6548' AND 3963'. LAND BOTTOM OF SHOE AT 7165', TOP OF FLOAT COLLAR AT 7119'. RAN 20 CENTRALIZERS. 5' FROM SHOE, TOP OF SECOND JOINT, THEN EVERY 3 JOINTS TO 4818'. FILL PIPE EVERY 50 JOINTS.
15:30	16:00	0.5	PICK UP TAG JOINT, TAG BOTTOM, LAY DOWN SAME, PICK UP HANGER, INSTALL ROTATING HEAD AND LAND CASING WITH 75K.
16:00	16:30	0.5	RIG DOWN CALIBER, HOLD SAFETY MEETING WITH CEMENTERS AND RIG CREW. RIG UP SCHLUMBERGER.
16:30	18:30	2.0	CEMENT AS FOLLOWS:TEST LINES TO 5000 PSI. PUMP 20 BBLs CHEMICAL WASH AND 20 BBLs WATER SPACER. MIXED AND PUMPED 325 SKS G + ADDITIVES (YIELD 2.26) AT 12.0 PPG WITH 12.915 GPS H2O.(135 BC), MIXED AND PUMPED TAIL 965 SKS 50:50 POZ G + ADDITIVES (YIELD 1.29) AT 14.1 PPG WITH 5.98 GPS H2O. (222 BC ) DISPLACED TO FLOAT COLLAR WITH 112 BBL H2O WITH 2 GAL/1000 LO64 FRESH WATER. AVG MIX AND DISPLACEMENT RATE 6 BPM. FINAL PUMP PRESSURE 1850 PSI AT 4 BPM. BUMPED PLUG TO 2850 PSI. AT 1838 HRS, 2/17/2009 BLEED OFF PRESSURE, FLOATS HELD. GOT BACK 30 BBLs WATERY CEMENT RETURNS.
18:30	19:30	1.0	RIG DOWN SCHLUMBERGER, WAIT TO BACK OFF HANGER
19:30	20:00	0.5	BACK OFF HANGER, LAY DOWN SAME. PICK UP, SET AND TEST PACKER TO 5000 PSI FOR 15 MINS.
20:00	00:00	4.0	CLEAN MUD TANKS, NIPPLE DOWN BOP.
00:00	06:00	6.0	RIG DOWN

NO ACCIDENTS, SHORT 1 HAND ON DAYS AND EVENING

SAFETY MEETINGS ON WORKING ON RUNNING CASING AND CEMENTING.

FUEL ON HAND 6683 GALS, 427 GALS USED.

UNMANNED LOGGER, FINAL DAY 5.

BOILER 24 HRS.

NOTIFIED DAN JARVIS, WITH THE STATE OF UTAH OF BOP TEST ON THE NBU 663-24E AT 1930 HRS, 2/17/2009, VIA PHONE MESSAGE. NOTIFIED BLM VIA EMAIL.

NOTIFIED CAROL DANIEL, WITH THE STATE OF UTAH OF SPUD TIME ON THE NBU 663-24E AT 2030 HRS, 2/17/2009, VIA PHONE MESSAGE. NOTIFIED BLM VIA EMAIL.

WILL TRANSFER 3 JOINTS 4.5", N-80 CASING(122.32') , 5 JOINTS, 4.5", HCP110 CASING(207.97') AND 1 SHORT JOINT, 4.5", HCP110 CASING(21.08').

WILL TRANSFER 6683 GALS DIESEL.

RIG MOVE TO NBU 663-24E IS 1 MILE.

06:00 RIG RELEASED @ 0000 HRS, 2/18/2009.

CASING POINT COST \$515,590

**02-21-2009**      **Reported By**      SEARLE

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$36,995	<b>Daily Total</b>	\$36,995
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Cum Costs: Drilling		\$532,687		Completion		\$209,287		Well Total		\$741,974	
MD	7,175	TVD	7,175	Progress	0	Days	5	MW	0.0	Visc	0.0
Formation :		PBTD : 7120.0				Perf :		PKR Depth : 0.0			
Activity at Report Time: PREP FOR FRACS											
Start	End	Hrs	Activity Description								
06:00	06:00	24.0	MIRU SCHLUMBERGER. LOG WITH RST/CBL/CCL/VDL/GR FROM PBTD TO 50'. EST CEMENT TOP @ 100'. RD SCHLUMBERGER.								
05-23-2009		Reported By		MCCURDY							
Daily Costs: Drilling		\$0		Completion		\$1,874		Daily Total		\$1,874	
Cum Costs: Drilling		\$532,687		Completion		\$211,161		Well Total		\$743,848	
MD	7,175	TVD	7,175	Progress	0	Days	6	MW	0.0	Visc	0.0
Formation :		PBTD : 7120.0				Perf :		PKR Depth : 0.0			
Activity at Report Time: WO COMPLETION											
Start	End	Hrs	Activity Description								
06:00	06:00	24.0	NU 10M FRAC TREE. PRESSURE TESTED FRAC TREE & CASING TO 6500 PSIG. WO COMPLETION.								
05-29-2009		Reported By		MCCURDY							
Daily Costs: Drilling		\$0		Completion		\$182,106		Daily Total		\$182,106	
Cum Costs: Drilling		\$532,687		Completion		\$393,267		Well Total		\$925,955	
MD	7,175	TVD	7,175	Progress	0	Days	7	MW	0.0	Visc	0.0
Formation : WASATCH		PBTD : 7120.0				Perf : 4865'-7003'		PKR Depth : 0.0			
Activity at Report Time: MIRUSU CLEAN OUT SAND AND DRILL OUT FRAC PLUGS											
Start	End	Hrs	Activity Description								
06:00	06:00	24.0	MIRU CUTTERS WIRELINE & PERFORATE NORTH HORN FROM 6856'-57', 6882'-83', 6904'-05', 6910'-12', 6918'-19', 6950'-51', 6959'-61', 6988'-89', 7001'-03' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 165 GAL GYPTRON T-106, 731 GAL 16# LINEAR PAD, 5374 GAL 16# LINEAR 1-1.5 PPG , 39738 GAL 16# DELTA 140 W/ 118000# 20/40 SAND @ 2-4 PPG. MTP 5660 PSIG. MTR 51.7 BPM. ATP 4866 PSIG. ATR 46.9 BPM. ISIP 3363 PSIG. RD HALLIBURTON.								
RUWL SET 6K CFP AT 6720'. PERFORATE Ba/NH FROM 6433'-34', 6464'-65', 6476'-77', 6488'-89', 6527'-28', 6584'-85', 6639'-42', 6655'-56', 6667'-68', 6693'-94' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 165 GAL GYPTRON T-106, 7160 GAL 16# LINEAR 1-1.5 PPG , 36827 GAL 16# DELTA 140 W/ 127400# 20/40 SAND @ 2-5 PPG. MTP 6414 PSIG. MTR 50.5 BPM. ATP 4983 PSIG. ATR 43.6 BPM. ISIP 2625 PSIG. RD HALLIBURTON.											
RUWL SET 6K CFP AT 6270'. PERFORATE Ba FROM 5991'-94', 6002'-07', 6049'-50', 6103'-04', 6173'-74', 6233'-34' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 7742 GAL 16# LINEAR 1-1.5 PPG , 36819 GAL 16# DELTA 140 W/ 127500# 20/40 SAND @ 2-5 PPG. MTP 4611 PSIG. MTR 50.8 BPM. ATP 3800 PSIG. ATR 47.5 BPM. ISIP 2550 PSIG. RD HALLIBURTON.											
RUWL SET 6K CFP AT 5900'. PERFORATE Ba FROM 5650'-52', 5663'-66', 5670'-73', 5680'-82', 5876'-78' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 8855 GAL 16# LINEAR 1-1.5 PPG , 41179 GAL 16# DELTA 140 W/ 143400# 20/40 SAND @ 2-5 PPG. MTP 4504 PSIG. MTR 50.9 BPM. ATP 3631 PSIG. ATR 48.4 BPM. ISIP 2325 PSIG. RD HALLIBURTON.											

RUWL SET 6K CFP AT 5350'. PERFORATE Ca FROM 5100'-04', 5114'-18', 5302'-06' @ 3 SPF @ 120° PHASING.  
RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 7597 GAL 16# LINEAR 1-1.5 PPG, 34774 GAL 16# DELTA  
140 W/ 119100# 20/40 SAND @ 2-5 PPG. MTP 5130 PSIG. MTR 51 BPM. ATP 4098 PSIG. ATR 47.3 BPM. ISIP 2565  
PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 4910'. PERFORATE Pp FROM 4865'-70', 4874'-77', 4881'-85' @ 3 SPF @ 120° PHASING.  
RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 7787 GAL 16# LINEAR 1-1.5 PPG, 37914 GAL 16# DELTA  
140 W/ 128900# 20/40 SAND @ 2-5 PPG. MTP 4606 PSIG. MTR 50.8 BPM. ATP 47.5 PSIG. ATR 47.5 BPM. ISIP 2660  
PSIG. RD HALLIBURTON.

RUWL. SET 6K CBP AT 4779'. RDMO CUTTERS WIRELINE.

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML 22790
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078		<b>8. WELL NAME and NUMBER:</b> NBU 667-24E
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0660 FSL 0660 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 24 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047500120000
<b>PHONE NUMBER:</b> 435 781-9111 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 6/4/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER</b>	
	OTHER:	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  No activity has occurred since last submission on 5/28/2009, waiting on completion operations.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> June 08, 2009		
<b>NAME (PLEASE PRINT)</b> Kaylene Gardner	<b>PHONE NUMBER</b> 435 781-9111	<b>TITLE</b> Regulatory Administrator
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/4/2009	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML 22790
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> 600 17th Street, Suite 1000 N , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> NBU 667-24E
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FSL 0660 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 24 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047500120000
<b>PHONE NUMBER:</b> 435 781-9111 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 6/11/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The referenced well was turned to sales on 6/11/2009. Please see the attached operations summary report for drilling and completion operations performed on the subject well.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> June 15, 2009		
<b>NAME (PLEASE PRINT)</b> Mary Maestas	<b>PHONE NUMBER</b> 303 824-5526	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/15/2009	

# WELL CHRONOLOGY REPORT

Report Generated On: 06-12-2009

<b>Well Name</b>	NBU 667-24E	<b>Well Type</b>	DEVG	<b>Division</b>	DENVER
<b>Field</b>	NATURAL BUTTES	<b>API #</b>	43-047-50012	<b>Well Class</b>	1SA
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	02-14-2009	<b>Class Date</b>	06-11-2009
<b>Tax Credit</b>	N	<b>TVD / MD</b>	7,175/ 7,175	<b>Property #</b>	062374
<b>Water Depth</b>	0	<b>Last CSG</b>	2.375	<b>Shoe TVD / MD</b>	0/ 0
<b>KB / GL Elev</b>	5,226/ 5,213				
<b>Location</b>	Section 24, T10S, R20E, SESE, 660 FSL & 660 FEL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL & COMPLETE		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	66.67	<b>NRI %</b>	49.395

AFE No		306046		AFE Total		1,277,435		DHC / CWC		567,835/ 709,600													
Rig Contr		ELENBURG		Rig Name		ELENBURG #29		Start Date		08-19-2008		Release Date		02-18-2009									
08-19-2008		Reported By		SHEILA MALLOY																			
DailyCosts: Drilling		\$0		Completion		\$0		Daily Total		\$0													
Cum Costs: Drilling		\$0		Completion		\$0		Well Total		\$0													
MD		0		TVD		0		Progress		0		Days		0		MW		0.0		Visc		0.0	
Formation :				PBTD : 0.0				Perf :				PKR Depth : 0.0											

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION DATA
			660' FSL & 660' FEL (SE/SE)
			SECTION 24, T10S, R20E
			UINTAH COUNTY, UTAH
			 LAT 39.927672, LONG 109.606539 (NAD 83)
			LAT 39.927708, LONG 109.605850 (NAD 27)
			 ELENBURG #29
			OBJECTIVE: 7175' TD, WASATCH
			DW/GAS
			NATURAL BUTTES PROSPECT
			DD&A: NATURAL BUTTES
			NATURAL BUTTES FIELD
			 LEASE: ML-22790
			ELEVATION: 5215.9' NAT GL, 5213.2' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 5213') 5226' KB (13')
			 EOG WI 66.67%, NRI 49.394976%

01-13-2009      Reported By      TERRY CSERE

**RECEIVED** June 15, 2009

<b>DailyCosts: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Daily Total</b>	\$75,000
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION STARTED.

01-14-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 5% COMPLETE.

01-15-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 20% COMPLETE.

01-16-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 35% COMPLETE.

01-19-2009      Reported By      TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	ROCKED OUT. DRILLING ROCK.

01-20-2009      Reported By      TERRY CSERE



<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

01-21-2009 Reported By TERRY CSERE

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

01-22-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

01-23-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SHOOT LOCATION.

01-26-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	PUSHING ON LOCATION.

01-27-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	PUSHING ON LOCATION.

01-28-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	60	<b>TVD</b>	60	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LINE TODAY. CRAIG'S ROUSTABOUT SERVICE SPUD A 26" HOLE ON 1/28/09 @ 10:30 AM. SET 60' OF 16" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. JERRY BARNES NOTIFIED CAROL DANIELS W/UDOGM AND MICHAEL LEE W/BLM OF THE SPUD 1/28/09 @ 09:15 AM.

01-29-2009 Reported By NATALIE BRAYTON

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$75,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$75,000
<b>MD</b>	60	<b>TVD</b>	60	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION IS COMPLETE.

02-04-2009 Reported By LES FARNSWORTH

<b>DailyCosts: Drilling</b>	\$236,708	<b>Completion</b>	\$0	<b>Daily Total</b>	\$236,708
<b>Cum Costs: Drilling</b>	\$311,708	<b>Completion</b>	\$0	<b>Well Total</b>	\$311,708
<b>MD</b>	2,427	<b>TVD</b>	2,427	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	MIRU CRAIGS DRILLING RIG # 3 ON 1/28/2009. DRILLED 12-1/4" HOLE TO 2414' GL (2427' KB). ENCOUNTERED NO WATER. RAN 57 JTS (2406.37') OF 9-5/8", 36.0#, J-55, STC CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 8 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. TAGGED BOTTOM @ 2414' WITH JOINT # 58 LAIED DOWN JOINT # 58. LANDED @ 2419' KB. RAN 200' OF 1" PIPE DOWN BACKSIDE. RDMO CRAIGS RIG.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 2400 PSIG. PUMPED 186 BBLs FRESH WATER & 20 BBLs GELLED WATER FLUSH AHEAD OF CEMENT. MIXED & PUMPED 250 SX (183 BBLs) OF PREMIUM LEAD CEMENT W/ 0.2% VARASET, 2% CALSEAL, & 2% EX-1. MIXED LEAD CEMENT @ 10.5 PPG W/YIELD OF 4.10 CF/SX.

TAILED IN W/ 300 SX (63 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED TAIL CEMENT TO 15.6 W/YIELD OF 1.18 CF/SX. DISPLACED CEMENT W/183 BBLs FRESH WATER. BUMPED PLUG W/ 711# @ 10:20 PM, 2/2/2009. CHECKED FLOAT, FLOAT HELD. SHUT-IN CASING VALVE. BROKE CIRCULATION 130 BBLs INTO FRESH WATER FLUSH. LOST CIRCULATION 170 BBLs INTO DISPLACEMENT. NO RETURNS WHEN PLUG BUMPED.

TOP JOB # 1: PUMP DOWN 200' OF 1" PIPE. MIXED & PUMPED 100 SX (21 BBLs) OF PREMIUM CEMENT W/2 % CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. NO RETURNS. WOC 3 HRS 30 MINUTES.

TOP JOB # 2: MIXED & PUMPED 100 SX (21 BBLs) OF PREMIUM CEMENT W/2 % CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. HOLE FILLED & STOOD FULL. RDMO HALLIBURTON CEMENTERS.

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIGS RIG #3 TOOK SURVEYS WHILE DRILLING HOLE @ 1461' = 1.0 DEGREE & 2392' = 2.0 DEGREE.

CONDUCTOR LEVEL RECORD: PS= 89.8 OPS= 89.9 VDS= 89.9 MS= 89.9

9 5/8 CASING LEVEL RECORD: PS= 89.9 OPS= 89.9 VDS= 89.8 MS= 89.8

DAN FARNSWORTH NOTIFIED UDOGM ROOSEVELT OFFICE BY PHONE OF THE SURFACE CASING & CEMENT JOB ON 1/30/2009 @ 11:30 AM.

02-14-2009		Reported By		DUANE C WINKLER							
Daily Costs: Drilling		\$55,836		Completion		\$0		Daily Total		\$55,836	
Cum Costs: Drilling		\$367,523		Completion		\$0		Well Total		\$367,523	
MD	2,427	TVD	2,427	Progress	0	Days	0	MW	0.0	Visc	0.0
Formation :			PBTD : 0.0			Perf :			PKR Depth : 0.0		
Activity at Report Time: DRILLING SHOE TRACK											
Start	End	Hrs	Activity Description								
06:00	20:00	14.0	MIRU RIG AND RURT								
20:00	00:00	4.0	NIPPLE UP BOPE, 2/13/2009 DAY WORK STARTED @ 2000 HRS								
00:00	03:00	3.0	TEST BOPS/DIVERTER, TEST ALL VALVES ON CHOKE MANIFOLD, CHOKE LINE AND KILL LINE TESTED RAMS AND HYDRIL AND CASING, ALL 5K EQUIPMENT TO 5,000 HIGH AND 250 LOW, HYDRIL 2,500 HIGH AND 250 LOW, CASING TO 1,500, ALL TESTED.								
03:00	05:00	2.0	TRIP IN HOLE WITH BHA								
05:00	06:00	1.0	INSTALL ROTATING RUBBER, TAG CMT								
			EMAILED BLM VERNAL JAMIE SPARGER ON 2/12/2009 RIG MOVE ON 2/13/2009 TO 667-24E @ 0730 AND BOPE TEST 1600 HRS, TRANSFERED FROM NBU 664-24E TO NBU 667-24E 3 JTS 4.5 N80 X 11.6 X LTC CASING (122.32') AND 4 JTS 4.5 P110 X 11.6# LTC (175.51), 4274 GLS DIESEL, RIG MOVE IS APPROXIMATELY 1 MILE								
			NO ACCIDENTS / INCIDENTS								
			NO RIG REPAIRS:								
			FULL CREWS								
			SAFETY MEETING # 1 RDRT								
			SAFETY MEETING # 2 THIRD PARTY SAFETY MEETING								
			FUEL ON HAND 4274 GLS,								
			TEST CROWN-O-MATIC, BOP DRILL								
			UNMANNED LOGGER DAY 1								

02-15-2009 Reported By D WINKLER, P AYOTTE

<b>Daily Costs: Drilling</b>	\$39,403	<b>Completion</b>	\$0	<b>Daily Total</b>	\$39,403
<b>Cum Costs: Drilling</b>	\$406,926	<b>Completion</b>	\$0	<b>Well Total</b>	\$406,926

<b>MD</b>	5,026	<b>TVD</b>	5,026	<b>Progress</b>	2,599	<b>Days</b>	1	<b>MW</b>	9.9	<b>Visc</b>	33.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: DRILLING @ 5026'

Start	End	Hrs	Activity Description
06:00	06:30	0.5	DRILL CMT FLOAT EQUPT, 10' NEW HOLE
06:30	07:00	0.5	SURVEY 2380' @ 2.5 DEGREE, PERFORM FIT TEST, PRESSURE WITH WATER TO 400 PSIG, EMW 11.4 PPG
07:00	12:00	5.0	DRILL FROM 2427' TO 3257', 830' AT 166'/HR, 15-18K WOB, 50-55 RRPM, 68 MMRPM, 1300 PSI AT 125 STROKES, OFF BOTTOM, #2 PUMP, 100-300 PSI DIFFERENTIAL, 426 GPM, MUD WT 9.2, 30 VIS.
12:00	12:30	0.5	RIG SERVICE
12:30	15:00	2.5	DRILL FROM 3257' TO 3484', 227' AT 90.8'/HR, SAME PARAMETERS AS ABOVE.
15:00	15:30	0.5	SURVEY AT 3439', 2.5*
15:30	21:00	5.5	DRILL FROM 3484' TO 4164, 680' AT 123.5'/HR, SAME PARAMETERS AS ABOVE. MUD WT 9.3, VIS 31.
21:00	22:00	1.0	CHANGE OUT SWIVEL PACKING.
22:00	22:30	0.5	DRILL FROM 4154' TO 4255', 101' AT 202'/HR. SAME PARAMETERS AS ABOVE.
22:30	23:00	0.5	SURVEY AT 4209', 2.5*
23:00	06:00	7.0	DRILL FROM 4255' TO 5206', 951' AT 135'.9'/HR, 15-19K WOB, 50-55 RRPM, 68 MMRPM, 1550 PSI AT 125 STROKES, OFF BOTTOM, #2 PUMP, 100-300 PSI DIFFERENTIAL, 426 GPM.

NO ACCIDENTS, SHORT 1 HAND ON DAYS, EVENING AND MORNING TOUR.

SAFETY MEETINGS ON RIG SERVICE AND SURVEYS (2).

FUEL ON HAND 6598 GALS, 2424 GALS USED.

MUD WT 9.9, VIS 33

OPERATE COM (3)

BG GAS 150U, CONN GAS 150U, HIGH GAS 5000U AT 4875'.

UNMANNED LOGGER, DAY 2.

NOTIFIED CAROL DANIELS WITH THE STATE AT 1400HRS, 2/14/2009, VIA PHONE MESSAGE ON SPUD.

NO FLARES OR FLOW.

06:00 SPUD A 7 7/8" HOLE W/ ROTARY TOOL @ 07:00 HRS, 2/14/2009.

02-16-2009 Reported By PETE AYOTTE

<b>Daily Costs: Drilling</b>	\$38,831	<b>Completion</b>	\$0	<b>Daily Total</b>	\$38,831
<b>Cum Costs: Drilling</b>	\$445,758	<b>Completion</b>	\$0	<b>Well Total</b>	\$445,758

<b>MD</b>	6,794	<b>TVD</b>	6,794	<b>Progress</b>	1,898	<b>Days</b>	2	<b>MW</b>	10.6	<b>Visc</b>	35.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: DRILLING @ 6794'

Start	End	Hrs	Activity Description
06:00	11:30	5.5	DRILL FROM 5026' TO 5570', 540' AT 98.9'/HR, 17-20K WOB, 50-55 RRPM, 68 MMRPM, 1600 PSI AT 125 STROKES, OFF BOTTOM, 100-325 PSI DIFFERENTIAL, #2 PUMP, 426 GPM, 10.3 MUD WT, 36 VIS.
11:30	12:00	0.5	RIG SERVICE
12:00	06:00	18.0	DRILL FROM 5570' TO 6794', 1224' AT 68'HR, SAME PARAMETERS AS ABOVE.

NO ACCIDENTS, SHORT 1 HAND ON DAYS, EVENING AND MORNING TOUR.  
 SAFETY MEETINGS ON BOOM INSPECTION(3).  
 FUEL ON HAND 4700 GALS, 1898 GALS USED.  
 MUD WT 10.6, VIS 37  
 OPERATE COM (3)  
 BUCK CANYON TOP AT 5713', NORTH HORN TOP AT 6465'.  
 BG GAS 100U, CONN GAS 100U, HIGH GAS 6250U AT 5675'.  
 UNMANNED LOGGER, DAY 3 .  
 BOILER 24 HRS.  
 NO FLARES OR FLOW

02-17-2009		Reported By		PETE AYOTTE							
DailyCosts: Drilling		\$41,054		Completion		\$6,447		Daily Total		\$47,501	
Cum Costs: Drilling		\$486,812		Completion		\$6,447		Well Total		\$493,259	
MD	7,175	TVD	7,175	Progress	381	Days	3	MW	11.0	Visc	38.0
Formation :		PBTD : 0.0				Perf :		PKR Depth : 0.0			
Activity at Report Time: LD BHA											

Start	End	Hrs	Activity Description
06:00	08:00	2.0	DRILL FROM 6794' TO 6890', 96' AT 48'/HR. 15-20K WOB, 50-55 RRPM, 68 MMRPM, 1950 PSI AT 125 STROKES, OFF BOTTOM, #2 PUMP, 100-325 PSI DIFFERENTIAL, MUD WT 10.6, VIS 38
08:00	11:30	3.5	LAY DOWN 2 SINGLES, CIRCULATE, WORK ON SWIVEL PACKING HOUSING, 5 OF 7 BOLTS BROKE ON HOUSING. REPLACE "O" RING, TAP OUT BOLTS AND REPLACE SAME.
11:30	16:00	4.5	DRILL FROM 6890' TO 7066', 176' AT 39.1'/HR, SAME PARAMETERS AS ABOVE, MUD WT 10.8, VIS 37.
16:00	16:30	0.5	RIG SERVICE, REPLACE OIL IN SWIVEL.
16:30	19:30	3.0	DRILL FROM 7066' TO 7175', 109' AT 36.3'/HR, SAME PARAMETERS AS ABOVE. MUD WT 11, VIS 37. REACHED TD @ 19:30 HRS, 2/16/2009.
19:30	20:00	0.5	CIRCULATE, PUMP 30 BBL 50 VIS SWEEP.
20:00	20:30	0.5	SHORT TRIP 10 JOINTS, (450'), HOLE SLICK
20:30	21:30	1.0	CIRCULATE, PUMP 30 BBL, 50 VIS SWEEP, MIX AND PUMP 90 BBL, 13# PILL, EQUIVALENT TO 11.3 PPG AT BOTTOM. DROP SURVEY
21:30	06:00	8.5	LAY DOWN PIPE AND BHA, TIGHT FROM 4500' TO 2500'. CASING POINT AT 2130 HRS, 2/16/2009.

NO ACCIDENTS, SHORT 1 HAND ON DAYS AND EVENING  
 SAFETY MEETINGS ON WORKING ON SWIVEL AND RIG SERVICE(2).  
 FUEL ON HAND 7110 GALS, 2005 GALS USED. RECEIVED 4415 GALS.  
 MUD WT 11, VIS 37  
 OPERATE COM (3)  
 BG GAS 100U, CONN GAS 100U.  
 UNMANNED LOGGER, DAY 4 .  
 BOILER 24 HRS.  
 NO FLARES OR FLOW  
 NOTIFIED DAN JARVIS, WITH THE STATE OF UTAH, OF CASING RUN AND CEMENTING AT 1500 HRS, 2/16/2009, VIA PHONE MESSAGE. NOTIFIED BLM VIA EMAIL.

02-18-2009		Reported By		PETE AYOTTE							
DailyCosts: Drilling		\$45,875		Completion		\$165,845		Daily Total		\$211,720	

<b>Cum Costs: Drilling</b>	\$532,687	<b>Completion</b>	\$172,292	<b>Well Total</b>	\$704,979
<b>MD</b>	7,175	<b>TVD</b>	7,175	<b>Progress</b>	0
				<b>Days</b>	4
				<b>MW</b>	0.0
<b>Formation :</b>		<b>PBTD : 0.0</b>		<b>Perf :</b>	
				<b>PKR Depth : 0.0</b>	

Activity at Report Time: RDRT/NO COMPLETION

Start	End	Hrs	Activity Description
06:00	07:00	1.0	LAY DOWN BHA, OPERATE PIPE AND BLIND RAMS
07:00	07:30	0.5	PULL WEAR BUSHING
07:30	08:30	1.0	HOLD SAFETY MEETING. RIG UP CALIBER CASERS.
08:30	15:30	7.0	RUN CASING AS FOLLOWS: RAN 168 JOINTS OF 4.5", 11.6#, LTC, HCP-110 CASING. SET MARKER TOPS AT 6548' AND 3963'. LAND BOTTOM OF SHOE AT 7165', TOP OF FLOAT COLLAR AT 7119'. RAN 20 CENTRALIZERS. 5' FROM SHOE, TOP OF SECOND JOINT, THEN EVERY 3 JOINTS TO 4818'. FILL PIPE EVERY 50 JOINTS.
15:30	16:00	0.5	PICK UP TAG JOINT, TAG BOTTOM, LAY DOWN SAME, PICK UP HANGER, INSTALL ROTATING HEAD AND LAND CASING WITH 75K.
16:00	16:30	0.5	RIG DOWN CALIBER, HOLD SAFETY MEETING WITH CEMENTERS AND RIG CREW. RIG UP SCHLUMBERGER.
16:30	18:30	2.0	CEMENT AS FOLLOWS:TEST LINES TO 5000 PSI. PUMP 20 BBLs CHEMICAL WASH AND 20 BBLs WATER SPACER. MIXED AND PUMPED 325 SKS G + ADDITIVES (YIELD 2.26) AT 12.0 PPG WITH 12.915 GPS H2O.(135 BC), MIXED AND PUMPED TAIL 965 SKS 50:50 POZ G + ADDITIVES (YIELD 1.29) AT 14.1 PPG WITH 5.98 GPS H2O. (222 BC ) DISPLACED TO FLOAT COLLAR WITH 112 BBL H2O WITH 2 GAL/1000 LO64 FRESH WATER. AVG MIX AND DISPLACEMENT RATE 6 BPM. FINAL PUMP PRESSURE 1850 PSI AT 4 BPM. BUMPED PLUG TO 2850 PSI. AT 1838 HRS, 2/17/2009 BLEED OFF PRESSURE, FLOATS HELD. GOT BACK 30 BBLs WATERY CEMENT RETURNS.
18:30	19:30	1.0	RIG DOWN SCHLUMBERGER, WAIT TO BACK OFF HANGER
19:30	20:00	0.5	BACK OFF HANGER, LAY DOWN SAME. PICK UP, SET AND TEST PACKER TO 5000 PSI FOR 15 MINS.
20:00	00:00	4.0	CLEAN MUD TANKS, NIPPLE DOWN BOP.
00:00	06:00	6.0	RIG DOWN

NO ACCIDENTS, SHORT 1 HAND ON DAYS AND EVENING

SAFETY MEETINGS ON WORKING ON RUNNING CASING AND CEMENTING.

FUEL ON HAND 6683 GALS, 427 GALS USED.

UNMANNED LOGGER, FINAL DAY 5.

BOILER 24 HRS.

NOTIFIED DAN JARVIS, WITH THE STATE OF UTAH OF BOP TEST ON THE NBU 663-24E AT 1930 HRS, 2/17/2009, VIA PHONE MESSAGE. NOTIFIED BLM VIA EMAIL.

NOTIFIED CAROL DANIEL, WITH THE STATE OF UTAH OF SPUD TIME ON THE NBU 663-24E AT 2030 HRS, 2/17/2009, VIA PHONE MESSAGE. NOTIFIED BLM VIA EMAIL.

WILL TRANSFER 3 JOINTS 4.5", N-80 CASING(122.32') , 5 JOINTS, 4.5", HCP110 CASING(207.97') AND 1 SHORT JOINT, 4.5", HCP110 CASING(21.08').

WILL TRANSFER 6683 GALS DIESEL.

RIG MOVE TO NBU 663-24E IS 1 MILE.

06:00 RIG RELEASED @ 0000 HRS, 2/18/2009.  
CASING POINT COST \$515,590

02-21-2009 Reported By SEARLE

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$36,995	<b>Daily Total</b>	\$36,995
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**Cum Costs: Drilling** \$532,687      **Completion** \$209,287      **Well Total** \$741,974  
**MD** 7,175    **TVD** 7,175    **Progress** 0    **Days** 5    **MW** 0.0    **Visc** 0.0  
**Formation :**                      **PBTD : 7120.0**                      **Perf :**                      **PKR Depth : 0.0**  
**Activity at Report Time:** PREP FOR FRACS  
**Start**    **End**    **Hrs**    **Activity Description**  
06:00    06:00    24.0 MIRU SCHLUMBERGER. LOG WITH RST/CBL/CCL/VDL/GR FROM PBTD TO 50'. EST CEMENT TOP @ 100'. RD SCHLUMBERGER.

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**05-23-2009**      **Reported By**      MCCURDY  
**DailyCosts: Drilling** \$0                      **Completion** \$1,874                      **Daily Total** \$1,874  
**Cum Costs: Drilling** \$532,687                      **Completion** \$211,161                      **Well Total** \$743,848  
**MD** 7,175    **TVD** 7,175    **Progress** 0    **Days** 6    **MW** 0.0    **Visc** 0.0  
**Formation :**                      **PBTD : 7120.0**                      **Perf :**                      **PKR Depth : 0.0**  
**Activity at Report Time:** WO COMPLETION  
**Start**    **End**    **Hrs**    **Activity Description**  
06:00    06:00    24.0 NU 10M FRAC TREE. PRESSURE TESTED FRAC TREE & CASING TO 6500 PSIG. WO COMPLETION.

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**05-29-2009**      **Reported By**      MCCURDY  
**DailyCosts: Drilling** \$0                      **Completion** \$182,106                      **Daily Total** \$182,106  
**Cum Costs: Drilling** \$532,687                      **Completion** \$393,267                      **Well Total** \$925,955  
**MD** 7,175    **TVD** 7,175    **Progress** 0    **Days** 7    **MW** 0.0    **Visc** 0.0  
**Formation :** WASATCH                      **PBTD : 7120.0**                      **Perf : 4865'-7003'**                      **PKR Depth : 0.0**  
**Activity at Report Time:** MIRUSU CLEAN OUT SAND AND DRILL OUT FRAC PLUGS  
**Start**    **End**    **Hrs**    **Activity Description**  
06:00    06:00    24.0 MIRU CUTTERS WIRELINE & PERFORATE NORTH HORN FROM 6856'-57', 6882'-83', 6904'-05', 6910'-12', 6918'-19', 6950'-51', 6959'-61', 6988'-89', 7001'-03' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 165 GAL GYPTRON T-106, 731 GAL 16# LINEAR PAD, 5374 GAL 16# LINEAR 1-1.5 PPG, 39738 GAL 16# DELTA 140 W/ 118000# 20/40 SAND @ 2-4 PPG. MTP 5660 PSIG. MTR 51.7 BPM. ATP 4866 PSIG. ATR 46.9 BPM. ISIP 3363 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 6720'. PERFORATE Ba/NH FROM 6433'-34', 6464'-65', 6476'-77', 6488'-89', 6527'-28', 6584'-85', 6639'-42', 6655'-56', 6667'-68', 6693'-94' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 165 GAL GYPTRON T-106, 7160 GAL 16# LINEAR 1-1.5 PPG, 36827 GAL 16# DELTA 140 W/ 127400# 20/40 SAND @ 2-5 PPG. MTP 6414 PSIG. MTR 50.5 BPM. ATP 4983 PSIG. ATR 43.6 BPM. ISIP 2625 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 6270'. PERFORATE Ba FROM 5991'-94', 6002'-07', 6049'-50', 6103'-04', 6173'-74', 6233'-34' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 7742 GAL 16# LINEAR 1-1.5 PPG, 36819 GAL 16# DELTA 140 W/ 127500# 20/40 SAND @ 2-5 PPG. MTP 4611 PSIG. MTR 50.8 BPM. ATP 3800 PSIG. ATR 47.5 BPM. ISIP 2550 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 5900'. PERFORATE Ba FROM 5650'-52', 5663'-66', 5670'-73', 5680'-82', 5876'-78' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 8855 GAL 16# LINEAR 1-1.5 PPG, 41179 GAL 16# DELTA 140 W/ 143400# 20/40 SAND @ 2-5 PPG. MTP 4504 PSIG. MTR 50.9 BPM. ATP 3631 PSIG. ATR 48.4 BPM. ISIP 2325 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 5350'. PERFORATE Ca FROM 5100'-04', 5114'-18', 5302'-06' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 7597 GAL 16# LINEAR 1-1.5 PPG, 34774 GAL 16# DELTA 140 W/ 119100# 20/40 SAND @ 2-5 PPG. MTP 5130 PSIG. MTR 51 BPM. ATP 4098 PSIG. ATR 47.3 BPM. ISIP 2565 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 4910'. PERFORATE Pp FROM 4865'-70', 4874'-77', 4881'-85' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/ 7787 GAL 16# LINEAR 1-1.5 PPG, 37914 GAL 16# DELTA 140 W/ 128900# 20/40 SAND @ 2-5 PPG. MTP 4606 PSIG. MTR 50.8 BPM. ATP 47.5 PSIG. ATR 47.5 BPM. ISIP 2660 PSIG. RD HALLIBURTON.

RUWL. SET 6K CBP AT 4779'. RDMO CUTTERS WIRELINE.

06-05-2009		Reported By		HISLOP							
DailyCosts: Drilling		\$0		Completion		\$16,143		Daily Total		\$16,143	
Cum Costs: Drilling		\$532,687		Completion		\$409,410		Well Total		\$942,098	
MD	7,175	TVD	7,175	Progress	0	Days	8	MW	0.0	Visc	0.0
Formation : WASATCH		PBTD : 7120.0				Perf : 4865'-7003'				PKR Depth : 0.0	
Activity at Report Time: CLEAN OUT AFTER FRAC											
Start	End	Hrs	Activity Description								
06:00	06:00	24.0	SICP 0 PSIG. MIRUSU. ND FRAC TREE. NU BOP. RIH W/BIT & PUMP OFF SUB TO 4779'. RU TO DRILL PLUGS. SDFN.								

06-06-2009		Reported By		HISLOP							
DailyCosts: Drilling		\$0		Completion		\$3,875		Daily Total		\$3,875	
Cum Costs: Drilling		\$532,687		Completion		\$413,285		Well Total		\$945,973	
MD	7,175	TVD	7,175	Progress	0	Days	9	MW	0.0	Visc	0.0
Formation : WASATCH		PBTD : 7120.0				Perf : 4865'-7003'				PKR Depth : 0.0	
Activity at Report Time: FLOW TEST											
Start	End	Hrs	Activity Description								
06:00	06:00	24.0	SICP 0 PSIG. CLEANED OUT & DRILLED OUT PLUGS @ 4779', 4910', 5350', 5900'. RIH TO CFP @ 6281'. HIGH TORQUE. POH TO 4782'. WELL FLOWING.								
FLOWED OUT ANNULUS 19 HRS. 32/64" CHOKE. FCP 200 PSIG. TP 0 PSIG. 43 BFPH. RECOVERED 798 BLW. 6402 BLWTR.											

06-07-2009		Reported By		HISLOP							
DailyCosts: Drilling		\$0		Completion		\$6,625		Daily Total		\$6,625	
Cum Costs: Drilling		\$532,687		Completion		\$419,910		Well Total		\$952,598	
MD	7,175	TVD	7,175	Progress	0	Days	10	MW	0.0	Visc	0.0
Formation : WASATCH		PBTD : 7120.0				Perf : 4865'-7003'				PKR Depth : 0.0	
Activity at Report Time: FLOW TEST											
Start	End	Hrs	Activity Description								
06:00	06:00	24.0	FLOWED ANNULUS 24 HRS. 32/64" CHOKE. FCP 200 PSIG. TP 0 PSIG. 13 BFPH. RECOVERED 636 BLW. 5716 BLWTR.								

06-08-2009		Reported By		HISLOP							
DailyCosts: Drilling		\$0		Completion		\$6,625		Daily Total		\$6,625	
Cum Costs: Drilling		\$532,687		Completion		\$426,535		Well Total		\$959,223	



MD 7,175 TVD 7,175 Progress 0 Days 11 MW 0.0 Visc 0.0

Formation : WASATCH PBTD : 7120.0 Perf : 4865'-7003' PKR Depth : 0.0

Activity at Report Time: FLOW TEST

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED ANNULUS 24 HRS. 32/64" CHOKE. FCP 450 PSIG. TP 0 PSIG. 43 BFPH. RECOVERED 643 BLW. 5123 BLWTR.

06-09-2009 Reported By HISLOP

Daily Costs: Drilling	\$0	Completion	\$65,629	Daily Total	\$65,629
Cum Costs: Drilling	\$532,687	Completion	\$492,164	Well Total	\$1,024,852

MD 7,175 TVD 7,175 Progress 0 Days 12 MW 0.0 Visc 0.0

Formation : WASATCH PBTD : 7120.0 Perf : 4865'-7003' PKR Depth : 0.0

Activity at Report Time: FLOW TEST

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED UP ANNULAS 3 HRS. OPEN CHOKE. FCP 200 PSIG. SITP 0 PSIG. 48 BFPH. RECOVERED 220 BLW. 4903 BLWTR. POH WITH TBG TO EOT @ 1730'. TOP KILL WELL WITH 50 BBLS FRESH WATER. FINISH POH. LAY DOWN POBS & BIT. 2-CONES MISSING. RIH WITH 3-7/8" 4-BLADE JUNK MILL, POBS TO CFP @ 6270'. RU TO DRILL PLUGS. BREAK CIRCULATION W/240 BBLS. CLEANED OUT & DRILLED OUT CONES & CFP @ 6270', & 6720'. RIH CLEANED OUT TO 7105'. LANDED TUBING @ 6327' KB. ND BOP. NU TREE. PUMPED OFF BIT & SUB.

FLOWED 9 HRS. 64/64" CHOKE. FTP 0 PSIG. CP 400 PSIG. 0 BFPH. RECOVERED 0 BLW. 4903 BLWTR.

FINAL COMPLETION: 06/09/09

TUBING DETAIL LENGTH

PUMP OFF BIT SUB .91'  
 1 JT 2-3/8" 4.7# N-80 TBG [ YB ] 32.58'  
 XN NIPPLE 1.30'  
 194 JTS 2-3/8" 4.7# N-80 TBG [ YB ] 6278.81'  
 BELOW KB 13.00'  
 LANDED @ 6326.60' KB

06-10-2009 Reported By HISLOP

Daily Costs: Drilling	\$0	Completion	\$8,105	Daily Total	\$8,105
Cum Costs: Drilling	\$532,687	Completion	\$500,269	Well Total	\$1,032,957

MD 7,175 TVD 7,175 Progress 0 Days 13 MW 0.0 Visc 0.0

Formation : WASATCH PBTD : 7120.0 Perf : 4865'-7003' PKR Depth : 0.0

Activity at Report Time: FLOW TEST

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED 24 HRS. 48/64" CHOKE. FTP 175 PSIG. CP 1100 PSIG. 43 BFPH. RECOVERED 964 BLW. 3939 BLWTR. RDMOSU.

06-11-2009 Reported By HISLOP

Daily Costs: Drilling	\$0	Completion	\$2,015	Daily Total	\$2,015
Cum Costs: Drilling	\$532,687	Completion	\$502,284	Well Total	\$1,034,972

**MD** 7,175 **TVD** 7,175 **Progress** 0 **Days** 14 **MW** 0.0 **Visc** 0.0

**Formation :** WASATCH **PBTD :** 7120.0 **Perf :** 4865'-7003' **PKR Depth :** 0.0

**Activity at Report Time:** WO FACILITIES

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED 24 HRS. 32/64" CHOKE. FTP 400 PSIG. CP 1000 PSIG. 21 BFPH. RECOVERED 651 BLW. 3288 BLWTR. SI. WO FACILITIES.

FINAL COMPLETION DATE: 6/10/09

**06-12-2009** **Reported By** DUANE COOK

**Daily Costs: Drilling** \$0 **Completion** \$2,015 **Daily Total** \$2,015

**Cum Costs: Drilling** \$532,687 **Completion** \$502,284 **Well Total** \$1,034,972

**MD** 7,175 **TVD** 7,175 **Progress** 0 **Days** 15 **MW** 0.0 **Visc** 0.0

**Formation :** WASATCH **PBTD :** 7120.0 **Perf :** 4865'-7003' **PKR Depth :** 0.0

**Activity at Report Time:** INITIAL PRODUCTION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	INITIAL PRODUCTION. OPENING PRESSURE: TP 900 PSIG & CP 1300 PSIG. TURNED WELL OVER TO KERR - MAGEE SALES AT 1:00 PM, 6/11/09. FLOWED 393 MCFD RATE ON 14/64" POS CHOKE. STATIC 371. KERR-MAGEE METER #985786.

## OPERATOR CHANGE WORKSHEET

**X Change of Operator (Well Sold)**  
Operator Name Change

Designation of Agent/Operator  
Merger

## ROUTING

1. DJJ

2. CDW

The operator of the well(s) listed below has changed, effective:

6/1/2009

**FROM: (Old Operator):**

N9550-EOG Resources  
1060 E Hwy 40  
Vernal, UT 84078  
Phone: 1-(435) 781-9111

**TO: ( New Operator):**

N2995-Kerr-McGee Oil & Gas Onshore., LP  
1368 South 1200 East  
Vernal, UT 84078  
Phone: 1-(435) 781-7024

CA No.			Unit:		NATURAL BUTTES			
WELL NAME(S)	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 664-24E	24	100S	200E	4304739867 ✓	2900	State	GW	P
NBU 663-24E	24	100S	200E	4304750010	2900	State	GW	P
NBU 661-24E	24	100S	200E	4304750011	2900	State	GW	P
NBU 667-24E	24	100S	200E	4304750012	2900	State	GW	P
NBU 640-13E	13	100S	220E	4304750014 ✓	2900	State	GW	P
NBU 662-24E	24	100S	200E	4304750017 ✓	2900	State	GW	P
NBU 666-24E	24	100S	200E	4304750057 ✓	2900	State	GW	P

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: Completion of well
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: Completion of well
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA n/a
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

## DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/16/2009
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/16/2009
- Bond information entered in RBDMS on: 7/16/2009
- Fee/State wells attached to bond in RBDMS on: 7/16/2009
- Injection Projects to new operator in RBDMS on: n/a

## BOND VERIFICATION:

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: n/a
- (R649-3-1) The **NEW** operator of any state or fee well(s) listed covered by Bond Number 22013542
- The **FORMER** operator has requested a release of liability from their bond on: n/a

## COMMENTS:

Well to transfer upon completion to Unit Operator (See 9/23/2003 letter from EOG &amp; agreement 9/17/03 from Westport )

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.  
Multiple Leases

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE – Other instructions on page 2.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
EOG Resources, Inc

3a. Address  
1060 EAST HIGHWAY 40, VERNAL, UT 84078

3b. Phone No. (include area code)  
435-781-9145

7. If Unit of CA/Agreement, Name and/or No.  
Natural Buttes

8. Well Name and No.  
Multiple Wells

9. API Well No.  
See Attached

10. Field and Pool or Exploratory Area  
Natural Buttes

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
See Attached

11. Country or Parish, State  
Utah, Utah

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

EOG Resources, Inc. has assigned all of its right, title and interest in the wells described in the attached list ("the Subject Wells") to Kerr-McGee Oil & Gas Onshore LP and will relinquish and transfer operatorship of all of the Subject Wells to Kerr-McGee Oil & Gas Onshore LP on January 1, 2010.

As of January 1, 2010, Kerr-McGee Oil & Gas Onshore LP will be considered to be the operator of each of the Subject Wells and will be responsible under the terms and conditions of the applicable lease for the operations conducted upon the leased lands. Bond coverage is provided under Kerr-McGee Oil & Gas Onshore LP's Nationwide BLM Bond No. WYB-000291.

Kerr-McGee Oil & Gas Onshore LP  
1099 18th Street, Suite 1800  
Denver, CO 80202-1918

By: Michael A. Nixon Date: 12/17/2009  
Michael A. Nixon  
Agent and Attorney-in-Fact

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
For Record Only EP  
1/31/2010

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
J. Michael Schween

Title Agent and Attorney-in-Fact

Date 12/17/2009

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

**RECEIVED**

Approved by

Title

Date

DEC 24 2009

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

DIV. OF OIL, GAS & MINING

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Lease #	API #	Well Name	Footages	Legal Description
UTUO2270A	4304730261	NBU 1-07B	1975' FNL 1850' FWL	T10S-R21E-07-SESW
UTUO144868	4304730262	NBU 2-15B	1630' FSL 2125' FEL	T09S-R20E-15-NWSE
ML22651	4304730267	NBU 3-02B	1819' FNL 716' FWL	T10S-R22E-02-SWNNW
UTUO10954A	4304730273	NBU 4-35B	2037' FNL 2539' FWL	T09S-R22E-35-SESW
ML22650	4304730272	NBU 5-36B	1023' FNL 958' FWL	T09S-R22E-36-NWNNW
UTUO1791	4304730278	NBU 7-09B	330' FSL 1600' FWL	T10S-R21E-09-SESW
UTUO1207 ST	4304730274	NBU 10-29B	1100' FSL 1540' FEL	T09S-R22E-29-SWSE
UTUO1791	4304730294	NBU 13-08B	1600' FSL 1300' FEL	T10S-R21E-08-NESE
UTUO581	4304730296	NBU 15-29B	821' FNL 687' FWL	T09S-R21E-29-NWNNW
UTUO1791	4304730316	NBU 16-06B	330' FSL 900' FEL	T10S-R21E-06-SESE
UTUO2270A	4304730317	NBU 17-18B	1014' FSL 2067' FEL	T10S-R21E-18-SWSE
UTUO144869	4304730328	NBU 19-21B	2015' FNL 646' FEL	T09S-R20E-21-SENE
UTUO575	4304730363	NBU 25-20B	1905' FNL 627' FWL	T09S-R21E-20-SWNNW
UTU4485	4304730364	NBU 26-13B	600' FSL 661' FEL	T10S-R20E-13-SESE
UTUO1393B	4304730367	NBU 28-04B	529' FNL 2145' FWL	T10S-R21E-04-NENW
UTUO1393B	4304730368	NBU 29-05B	398' FSL 888' FWL	T10S-R21E-05-SESE
UTUO575	4304730380	NBU 30-18B	1895' FSL 685' FEL	T09S-R21E-18-NESE
ML01197A	4304730385	NBU 31-12B	565' FNL 756' FWL	T10S-R22E-12-NWNNW
UTU461	4304730396	NBU 33-17B	683' FSL 739' FWL	T09S-R22E-17-SWSW
UTUO575	4304730404	NBU 34-17B	210' FNL 710' FEL	T09S-R21E-17-NENE
UTUO149767	4304730397	NBU 35-08B	1830' FNL 660' FWL	T09S-R21E-8-SWNNW
UTUO144878B	4304730470	NBU 49-12B	551' FSL 1901' FEL	T09S-R20E-12-SWSE
UTUO140225	4304730473	NBU 52-01B	659' FSL 658' FEL	T09S-R21E-01-SESE
UTUO141315	4304730474	NBU 53-03B	495' FSL 601' FWL	T09S-R21E-03-SWSW
ML21510	4304730475	NBU 54-02B	660' FSL 660' FWL	T09S-R21E-02-SWSW
UTUO1193	4304730464	NBU 57-12B	676' FSL 1976' FEL	T09S-R21E-12-SWSE
UTUO1198B	4304730463	NBU 58-23B	1634' FNL 2366' FEL	T10S-R22E-23-SWNE
UTUO37167	4304730477	NBU 62-35B	760' FNL 2252' FEL	T10S-R22E-35-NWNE
UTU10186	4304730466	NBU 63-12B	1364' FNL 1358' FEL	T10S-R20E-12-SWNE
UTUO37167	4304730577	NBU 70-34B	1859' FSL 2249' FWL	T10S-R22E-34-NESW
UTU4476	4304730578	NBU 71-26B	1877' FNL 528' FEL	T10S-R20E-26-SENE
UTUO141315	4304731150	NBU 202-03	898' FSL 1580' FEL	T09S-R21E-03-SWSE
UTUO1791	4304731238	NBU 205-08	1432' FSL 1267' FWL	T10S-R21E-08-NWNNW
UTUO1791	4304731165	NBU 206-09	1789' FNL 1546' FWL	T10S-R21E-09-SESW
UTUO1393B	4304731177	NBU 207-04	1366' FSL 1445' FWL	T10S-R21E-04-NESW
UTUO149076	4304731153	NBU 210-24	1000' FSL 1000' FWL	T09S-R21E-24-SWSW
UTUO284	4304731156	NBU 211-20	916' FSL 822' FEL	T09S-R22E-20-SESE
UTUO284	4304731267	NBU 212-19	289' FSL 798' FWL	T09S-R22E-19-SWSW
UTU22650	4304731268	NBU 213-36J	597' FNL 659' FEL	T09S-R22E-36-NENE
ML22651	4304731282	NBU 217-02	2045' FSL 766' FWL	T10S-R22E-02-NWNNW
UTUO2270A	4304731310	NBU 218-17	2600' FNL 1500' FWL	T10S-R21E-17-SESW
UTUO149076	4304731308	NBU 219-24	1300' FNL 500' FWL	T09S-R21E-24-NWNNW
UTUO149076	4304732131	NBU 301-24E	700' FSL 2450' FEL	T09S-R21E-24-SWSE
UTUO1791	4304732010	NBU 302-09E	1899' FSL 912' FWL	T10S-R21E-09-NWNNW
UTUO575	4304732130	NBU 304-18E	782' FSL 1783' FEL	T09S-R21E-18-SWSE
UTUO149767	4304732135	NBU 305-07E	670' FNL 1950' FWL	T09S-R21E-07-NENW
UTUO581	4304732282	NBU 306-18E	1604' FSL 2797' FWL	T09S-R21E-18-NESW
UTUO1791	4304732014	NBU 307-06E	1979' FSL 2000' FEL	T10S-R21E-06-NWSE
UTUO284	4304732202	NBU 308-20E	1503' FSL 954' FWL	T09S-R22E-20-NWNNW
UTUO575	4304732283	NBU 309-20E	930' FNL 667' FEL	T09S-R21E-20-NENE
UTUO149075	4304732203	NBU 311-23E	1101' FSL 1978' FEL	T09S-R21E-23-SWSE
UTUO581	4304732378	NBU 313-29E	1000' FNL 660' FEL	T09S-R21E-29-NENE
UTUO141315	4304732271	NBU 314-03E	1045' FSL 2584' FWL	T09S-R21E-03-SESW
UTUO575	4304732381	NBU 316-17E	1935' FNL 1067' FWL	T09S-R21E-17-SWNNW
UTUO144868B	4304732362	NBU 317-12E	867' FNL 701' FEL	T09S-R20E-12-NENE
UTUO2270A	4304737511	NBU 319-17E	807' FNL 990' FWL	T10S-R21E-17-NWNNW
UTUO1188	4304732379	NBU 321-10E	940' FSL 2508' FWL	T09S-R21E-10-SESW
UTUO575B	4304732376	NBU 325-08E	832' FSL 669' FWL	T09S-R21E-08-SWSW
UTUO1393B	4304733697	NBU 326-04E	1906' FNL 695' FWL	T10S-R21E-04-SWNNW
UTUO1393B	4304739303	NBU 327-05E	1117' FNL 942' FEL	T10S-R21E-05-NENE (LOT 1)
UTU4485	4304732386	NBU 328-13E	1766' FSL 1944' FWL	T10S-R20E-13-NESW
UTUO1207 ST	4304732229	NBU 329-29E	2490' FNL 949' FEL	T09S-R22E-29-SENE

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Lease #	API #	Well Name	Footages	Legal Description
UTUO10954A	4304732147	NBU 331-35E	1531' FNL 1153' FEL	T09S-R22E-35-SENE
UTUO1791	4304732148	NBU 332-08E	955' FSL 2508' FEL	T10S-R21E-08-SWSE
ML21510	4304732518	NBU 333-02E	1951' FSL 2245' FWL	T09S-R21E-02-NESW
UTUO149075	4304732265	NBU 335-23E	1419' FNL 828' FEL	T09S-R21E-23-SENE
UTUO149076	4304732264	NBU 336-24E	2024' FNL 1958' FWL	T09S-R21E-24-SENE
UTUO284	4304732281	NBU 339-19E	1890' FSL 674' FWL	T09S-R22E-19-NWSW
UTUO284B	4304732327	NBU 340-20E	1326' FSL 2569' FEL	T09S-R22E-20-NWSE
UTUO1207 ST	4304733055	NBU 341-29E	307' FSL 898' FEL	T09S-R22E-29-SESE
UTUO10954A	4304732212	NBU 342-35E	918' FNL 2563' FEL	T09S-R22E-35-NWNE
UTUO1393B	4304739338	NBU 346-05E	2233' FSL 676' FEL	T10S-R21E-05-NESE
UTUO575B	4304732326	NBU 349-07E	1641' FNL 1036' FWL	T09S-R21E-07-SWNW
UTUO1188	4304732519	NBU 352-10E	1806' FSL 842' FWL	T09S-R21E-10-NWSW
UTUO581	4304732383	NBU 356-29E	1600' FNL 1980' FEL	T09S-R21E-29-SWNE
UTUO2270A	4304732388	NBU 358-01E	736' FSL 1941' FEL	T10S-R20E-01-SWSE
UTU4485	4304750032	NBU 359-13E	661' FSL 2149' FEL	T10S-R20E-13-SWSE
UTU4485	4304732387	NBU 360-13E	1998' FSL 775' FWL	T10S-R20E-13-NWSW
ML21510	4304733782	NBU 379-02E	1967' FSL 898' FWL	T09S-R21E-02-NWSW
UTUO575	4304733064	NBU 382-18E	2030' FSL 2172' FEL	T09S-R21E-18-NWSE
UTUO149075	4304735889	NBU 384-23E	491' FSL 929' FEL	T09S-R21E-23-SESE
UTUO149076	4304733056	NBU 386-24E	450' FSL 1850' FWL	T09S-R21E-24-SESW
UTUO284	4304733057	NBU 388-19E	382' FSL 1847' FWL	T09S-R22E-19-SESW
UTUO1207 ST	4304733049	NBU 389-29E	2226' FSL 2166' FEL	T09S-R22E-29-NWSE
UTUO1393B	4304732835	NBU 390-04E	2577' FSL 1951' FWL	T10S-R21E-04-NESW
UTUO1393B	4304732988	NBU 391-05E	1215' FSL 2090' FEL	T10S-R21E-05-SWSE
UTUO1791	4304733783	NBU 392-06E	1926' FSL 611' FEL	T10S-R21E-06-NESE
UTU4485	4304733071	NBU 393-13E	1850' FSL 2141' FEL	T10S-R20E-13-NWSE
UTU4485	4304733072	NBU 394-13E	725' FSL 2027' FWL	T10S-R20E-13-SESW
UTUO1188	4304732544	NBU 400-11E	1983' FSL 1321' FWL	T09S-R21E-11-NESW
UTUO581	4304734216	NBU 421-29E	1985' FNL 972' FEL	T09S-R21E-29-SENE
UTUO581	4304733698	NBU 422-29E	1980' FNL 785' FWL	T09S-R21E-29-SWNW
UTUO581	4304734206	NBU 423-30E	1980' FSL 660' FEL	T09S-R21E-30-NESE
ML3142	4304733699	NBU 424-32E	744' FNL 773' FEL	T09S-R21E-32-NENE
UTUO2270A	4304740049	NBU 428-07E	660' FSL 855' FWL	T10S-R21E-07-SWSW (Lot 4)
UTUO1791	4304733069	NBU 431-09E	2599' FNL 662' FWL	T10S-R21E-09-SWNW
UTUO2270A	4304738536	NBU 434-17E	1799' FNL 2176' FWL	T10S-R21E-17-SENE
UTUO2270A	4304738376	NBU 435-17E	1837' FNL 571' FWL	T10S-R21E-17-SWNW
UTUO2270A	4304734195	NBU 436-18E	1644' FSL 748' FEL	T10S-R21E-18-NESE
UTUO2270A	4304735499	NBU 437-18E	322' FSL 748' FEL	T10S-R21E-18-SESE
ML22792	4304737534	NBU 438-19E	661' FNL 1941' FEL	T10S-R21E-19-NWNE
ML22792	4304737535	NBU 439-19E	2111' FNL 1980' FWL	T10S-R21E-19-SWNE
UTUO10953	4304736279	NBU 451-01E	1965' FSL 2132' FWL	T10S-R22E-01-NESW
ML22651	4304736053	NBU 456-02E	493' FNL 1080' FWL	T10S-R22E-02-NWNW (Lot 4)
UTUO141315	4304733063	NBU 481-03E	1490' FSL 556' FEL	T09S-R21E-03-NESE
UTUO581	4304733065	NBU 483-19E	1850' FSL 1980' FWL	T09S-R21E-19-NESW
UTUO575	4304733784	NBU 484-20E	350' FNL 823' FWL	T09S-R21E-20-NWNW
UTUO2270A	4304739897	NBU 486-07E	1895' FSL 1834' FWL	T10S-R21E-07-NESW
UTUO575B	4304733121	NBU 489-07E	763' FSL 733' FWL	T09S-R21E-07-SWSW (Lot 4)
UTUO2270A	4304733123	NBU 497-01E	2091' FSL 894' FEL	T10S-R20E-01-NESE
UTUO577A	4304733140	NBU 506-23E	720' FNL 1818' FWL	T09S-R20E-23-NENW
UTUO1791	4304733124	NBU 508-08E	915' FSL 355' FEL	T10S-R21E-08-SESE
UTUO1197A ST	4304739283	NBU 513-12EX	1850' FNL 2133' FWL	T10S-R22E-12-SENE
UTUO2270A	4304733696	NBU 516-12E	1950' FSL 1786' FEL	T10S-R20E-12-NWSE
UTUO141315	4304733779	NBU 519-03E	1749' FSL 798' FWL	T09S-R21E-03-NWSW
UTUO575B	4304733780	NBU 521-08E	2250' FSL 900' FWL	T09S-R21E-08-NWSW
UTUO1188	4304733781	NBU 522-10E	732' FSL 841' FEL	T09S-R21E-10-SESE
UTUO2270A	4304733685	NBU 523-12E	660' FSL 660' FEL	T10S-R20E-12-SESE
UTUO2270A	4304733701	NBU 524-12E	841' FSL 1795' FEL	T10S-R20E-12-SWSE
UTUO2270A	4304739722	NBU 529-07E	704' FNL 762' FWL	T10S-R21E-07-NWNW
UTUO581	4304734639	NBU 534-18E	1885' FSL 115' FWL	T09S-R21E-18-NWSW
UTUO2270A	4304735200	NBU 535-17E	1893' FSL 580' FWL	T10S-R21E-17-NWSW
ML22791	4304735252	NBU 536-18E	734' FSL 2293' FWL	T10S-R21E-18-SESW
UTUO2270A	4304735253	NBU 537-18E	1880' FSL 1830' FEL	T10S-R21E-18-NWSE

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Lease #	API #	Well Name	Footages	Legal Description
UTUO284	4304735886	NBU 538-19E	1937' FSL 1833' FWL	T09S-R22E-19-NESW
UTUO149076	4304735887	NBU 539-24E	1870' FSL 477' FEL	T09S-R21E-24-NESE
UTUO10953	4304736280	NBU 546-01E	2036' FSL 699' FWL	T10S-R22E-01-NWSW
UTUO10953	4304736278	NBU 547-01E	749' FSL 598' FWL	T10S-R22E-01-SWSW
UTU474	4304737687	NBU 553-28E	767' FNL 753' FWL	T10S-R22E-28-NWNW
UTU474	4304737686	NBU 554-28E	2023' FNL 465' FWL	T10S-R22E-28-SWNW
ML22791	4304737685	NBU 555-18E	1984' FSL 1790' FWL	T10S-R21E-18-NESW
ML22791	4304737514	NBU 556-18E	1800' FSL 870' FWL	T10S-R21E-18-NWSW
ML22791	4304737513	NBU 557-18E	852' FSL 661' FWL	T10S-R21E-18-SWSW
UTUO2270A	4304737510	NBU 558-17E	748' FSL 611' FWL	T10S-R21E-17-SWSW
UTUO2278C	4304737509	NBU 559-17E	467' FSL 2065' FWL	T10S-R21E-17-SESW
UTUO2278	4304737508	NBU 560-17E	1946' FSL 1896' FWL	T10S-R21E-17-NESW
UTUO2278	4304737512	NBU 561-17E	857' FSL 1988' FEL	T10S-R21E-17-SWSE
ML22792	4304737536	NBU 562-19E	859' FNL 859' FEL	T10S-R21E-19-NENE
ML22792	4304737537	NBU 563-19E	1982' FSL 1878' FEL	T10S-R21E-19-NWSE
UTU4476	4304738962	NBU 564-26E	665' FNL 1945' FWL	T10S-R20E-26-NWNW
ML22793	4304737533	NBU 565-30E	1865' FNL 1786' FEL	T10S-R21E-30-SWNE
UTUO2270A	4304738375	NBU 566-17E	538' FNL 1806' FWL	T10S-R21E-17-NENW
UTUO1791	4304738535	NBU 567-17E	690' FNL 1988' FEL	T10S-R21E-17-NWNE
UTUO1791	4304738537	NBU 568-17E	850' FNL 807' FEL	T10S-R21E-17-NENE
UTUO1791	4304738534	NBU 569-17E	2009' FNL 1809' FEL	T10S-R21E-17-SWNE
UTUO1791	4304738529	NBU 570-17E	2031' FNL 672' FEL	T10S-R21E-17-SENE
UTUO2278	4304738377	NBU 571-17E	1964' FSL 1831' FEL	T10S-R21E-17-NWSE
UTUO2278	4304738374	NBU 572-17E	1810' FSL 739' FEL	T10S-R21E-17-NESE
UTUO2278	4304738510	NBU 573-17E	813' FSL 481' FEL	T10S-R21E-17-SESE
ML22650	4304739308	NBU 602-36E	1723' FNL 719' FWL	T09S-R22E-36-SWNW
UTUO1393B	4304739305	NBU 614-05E	716' FNL 1967' FEL	T10S-R21E-05-NWNE
UTUO1393B	4304739655	NBU 615-05E	2384' FNL 1015' FEL	T10S-R21E-05-SENE
UTUO1393B	4304739337	NBU 617-04E	933' FNL 745' FWL	T10S-R21E-04-NWNW
UTUO1393B	4304739336	NBU 618-04E	998' FSL 661' FWL	T10S-R21E-04-SWSW
UTUO1393B	4304739414	NBU 625-04E	1937' FNL 1722' FWL	T10S-R21E-04-SENW
UO01197A ST	4304739192	NBU 632-12E	860' FNL 2032' FWL	T10S-R22E-12-NENW
UO01197A ST	4304739193	NBU 633-12E	789' FNL 2179' FEL	T10S-R22E-12-NWNE
UO01197A ST	4304739190	NBU 635-12E	1808' FNL 1754' FEL	T10S-R22E-12-SWNE
UTUO1197A ST	4304739191	NBU 636-12E	1824' FNL 461' FEL	T10S-R22E-12-SENE
UTUO8512 ST	4304750016	NBU 638-13E	1926' FNL 2504' FWL	T10S-R22E-13-SENW
UTUO8512 ST	4304750019	NBU 639-13E	859' FNL 1902' FEL	T10S-R22E-13-NWNE
UTUO8512 ST	4304750014	NBU 640-13E	1619' FNL 1639' FEL	T10S-R22E-13-SWNE
UTUO8512A ST	4304750058	NBU 641-13E	990' FNL 1184' FEL	T10S-R22E-13-NENE
UTUO8512 ST	4304750013	NBU 642-13E	1949' FNL 858' FEL	T10S-R22E-13-SENE
UTUO2270A	4304739957	NBU 653-07E	660' FNL 1980' FWL	T10S-R21E-07-NENW
UTUO2270A	4304739956	NBU 654-07E	1913' FNL 522' FWL	T10S-R21E-07-SWNW
UTUO2270A	4304739860	NBU 655-07E	1926' FSL 750' FWL	T10S-R21E-07-NWSW
UTUO1791	4304739856	NBU 658-01E	2177' FNL 1784' FEL	T10S-R20E-01-SWNE
UTUO2270A	4304739858	NBU 660-12E	661' FNL 691' FEL	T10S-R20E-12-NENE
ML22790	4304750011	NBU 661-24E	1734' FSL 661' FWL	T10S-R20E-24-NWSW
ML22790	4304750017	NBU 662-24E	809' FSL 807' FWL	T10S-R20E-24-SWSW
ML22790	4304750010	NBU 663-24E	810' FSL 1979' FWL	T10S-R20E-24-SESW
ML22790	4304739867	NBU 664-24E	1810' FNL 1781' FEL	T10S-R20E-24-NWSE
ML22790	4304750018	NBU 665-24E	1950' FSL 660' FEL	T10S-R20E-24-NESE
ML22790	4304750057	NBU 666-24E	1043' FSL 1722' FEL	T10S-R20E-24-SWSE
ML22790	4304750012	NBU 667-24E	660' FSL 660' FEL	T10S-R20E-24-SESE
UTUO2270A	4304739901	NBU 668-12E	859' FNL 1915' FEL	T10S-R20E-12-NWNE
UO1207 ST	4304740084	NBU 670-29E	2018' FSL 859' FEL	T09S-R22E-29-NESE
UO1207 ST	4304750027	NBU 691-29E	680' FNL 797' FEL	T09S-R22E-29-NENE
ML3140.5	4304738330	NBU 760-36E	1320' FNL 1320' FEL	T09S-R20E-36-NENE
UTU4476	4304738632	NBU 762-26E	1506' FNL 1449' FEL	T10S-R20E-26-SWNE
ML22792	4304738332	NBU 763-19E	1258' FSL 1388' FEL	T10S-R21E-19-SWSE
ML3142	4304738331	NBU 764-32E	875' FNL 667' FWL	T09S-R21E-32-NWNW
UTUO1791	4304738633	NBU 765-09E	1000' FSL 1640' FWL	T10S-R21E-09-SESW

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DIV OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22790
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: EOG Resources, Inc.		7. UNIT or CA AGREEMENT NAME Natural Buttes
3. ADDRESS OF OPERATOR: 600 17th St., Suite 1000N CITY Denver STATE CO ZIP 80202		8. WELL NAME and NUMBER: Natural Buttes Unit 667-24E
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 660' FSL & 660' FEL 39.927672 LAT 109.606539 LON AT TOP PRODUCING INTERVAL REPORTED BELOW: Same AT TOTAL DEPTH: Same		9. API NUMBER: 43-047-50012
14. DATE SPUDDED: 1/28/2009		10. FIELD AND POOL, OR WILDCAT Natural Buttes
15. DATE T.D. REACHED: 2/16/2009		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 24 10S 20E S
16. DATE COMPLETED: 6/11/2009		12. COUNTY Uintah
ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
17. ELEVATIONS (DF, RKB, RT, GL): 5216' NAT GL		
18. TOTAL DEPTH: MD 7,175 TVD		21. DEPTH BRIDGE MD PLUG SET: TVD
19. PLUG BACK T.D.: MD 7,120 TVD		
20. IF MULTIPLE COMPLETIONS, HOW MANY? *		
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) ✓ RST/CBL/CCL/VDL/GR		23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 J-55	36.0	0	2,419		750		0	
7.875	4.5 HCP-110	11.6	0	7,165		1290		100	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.375	6,327							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch	4,865	7,003			6,856 7,003		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					6,433 6,694		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					5,991 6,234		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)					5,650 5,878		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6856-7003	46,008 GALS GELLED WATER & 118,000# 20/40 SAND
6433-6694	44,152 GALS GELLED WATER & 127,400# 20/40 SAND
5991-6234	44,561 GALS GELLED WATER & 127,500# 20/40 SAND

29. ENCLOSED ATTACHMENTS:

- ☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

30. WELL STATUS:

Producing

RECEIVED

JUL 09 2009

DIV. OF OIL, GAS & MINING



## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 6/11/2009	TEST DATE: 6/18/2009	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 512	WATER – BBL: 160	PROD. METHOD: Flows
CHOKE SIZE: 14/64"	TBG. PRESS. 925	CSG. PRESS. 1,425	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Producing

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Wasatch	4,865	7,003		Green River Birds Nest Mahogany Uteland Butte Wasatch Chapita Wells Buck Canyon	1,117 1,384 1,817 4,243 4,368 4,971 5,634

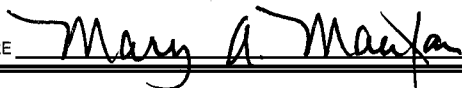
## 35. ADDITIONAL REMARKS (Include plugging procedure)

See attached page for additional information.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Mary A. MaestasTITLE Regulatory Assistant

SIGNATURE

DATE 7/7/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**Natural Buttes Unit 667-24E - ADDITIONAL REMARKS (CONTINUED):**

**26. PERFORATION RECORD**

5100-5306	3/spf
4865-4885	3/spf

**27. ACID, FRACTURE TREATMENT, CEMENT SQUEEZE, ETC.**

5650-5878	50,034 GALS GELLED WATER & 143,400# 20/40 SAND
5100-5306	42,371 GALS GELLED WATER & 119,100# 20/40 SAND
4865-4885	45,701 GALS GELLED WATER & 128,900# 20/40 SAND

Perforated the North Horn from 6856-57', 6882-83', 6904-05', 6910-12', 6918-19', 6950-51', 6959-61', 6988-89', 7001-03' w/ 3 spf.

Perforated the Ba/North Horn from 6433-34', 6464-65', 6476-77', 6488-89', 6527-28', 6584-85', 6639-42', 6655-56', 6667-68', 6693-94' w/ 3 spf.

Perforated the Ba from 5991-94', 6002-07', 6049-50', 6103-04', 6173-74', 6233-34' w/ 3 spf.

Perforated the Ba from 5650-52', 5663-66', 5670-73', 5680-82', 5876-78' w/ 3 spf.

Perforated the Ca from 5100-04', 5114-18', 5302-06' w/ 3 spf.

Perforated the Pp from 4865-70', 4874-77', 4881-85' w/ 3 spf.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: NBU 667-24E

API number: 4304750012

Well Location: QQ SESE Section 24 Township 10S Range 20E County UINTAH

Well operator: EOG

Address: 1060 E HWY 40

city VERNAL state UT zip 84078

Phone: (435) 781-9111

Drilling contractor: CRAIGS ROUSTABOUT SERVICE

Address: PO BOX 41

city JENSEN state UT zip 84035

Phone: (435) 781-1366

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
		NO WATER	

Formation tops: (Top to Bottom)

1	2	3
4	5	6
7	8	9
10	11	12

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Mary A. Maestas

TITLE Regulatory Assistant

SIGNATURE Mary A. Maestas

DATE 7/7/2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML 22790
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 667-24E
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FSL 0660 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 24 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047500120000
<b>PHONE NUMBER:</b> 720 929-6454		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH


11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>10/3/2016</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the NBU 667-24E well. Please see the attached procedure for details. Thank you.

Approved by the  
Utah Division of  
Oil, Gas and Mining

**Date:** November 17, 2016

**By:** 

Please Review Attached Conditions of Approval

<b>NAME (PLEASE PRINT)</b> Candice Barber	<b>PHONE NUMBER</b> 435 781-9749	<b>TITLE</b> HSE Representative
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/3/2016	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Sundry Conditions of Approval Well Number 43047500120000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. All balanced plugs shall be tagged to ensure they are at the depths specified in the procedure.**
- 3. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 4. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 5. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 6. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 7. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

11/17/2016

## Wellbore Diagram

r263

API Well No: 43-047-50012-00-00

Permit No:

Well Name/No: NBU 667-24E

Company Name: KERR-MCGEE OIL &amp; GAS ONSHORE, L.P.

Location: Sec: 24 T: 10S R: 20E Spot: SESE

Coordinates: X: 619073 Y: 4420662

Field Name: NATURAL BUTTES

County Name: UINTAH

## String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (F/ct)
HOL1	2419	12.25			
SURF	2419	9.625	36	2419	
HOL2	7165	7.875			
PROD	7165	4.5	11.6	7165	11.459
T1	6327	2.375			

$9\frac{5}{8}'' \times 4\frac{1}{2}'' \rightarrow 3.090$

## Cement Information

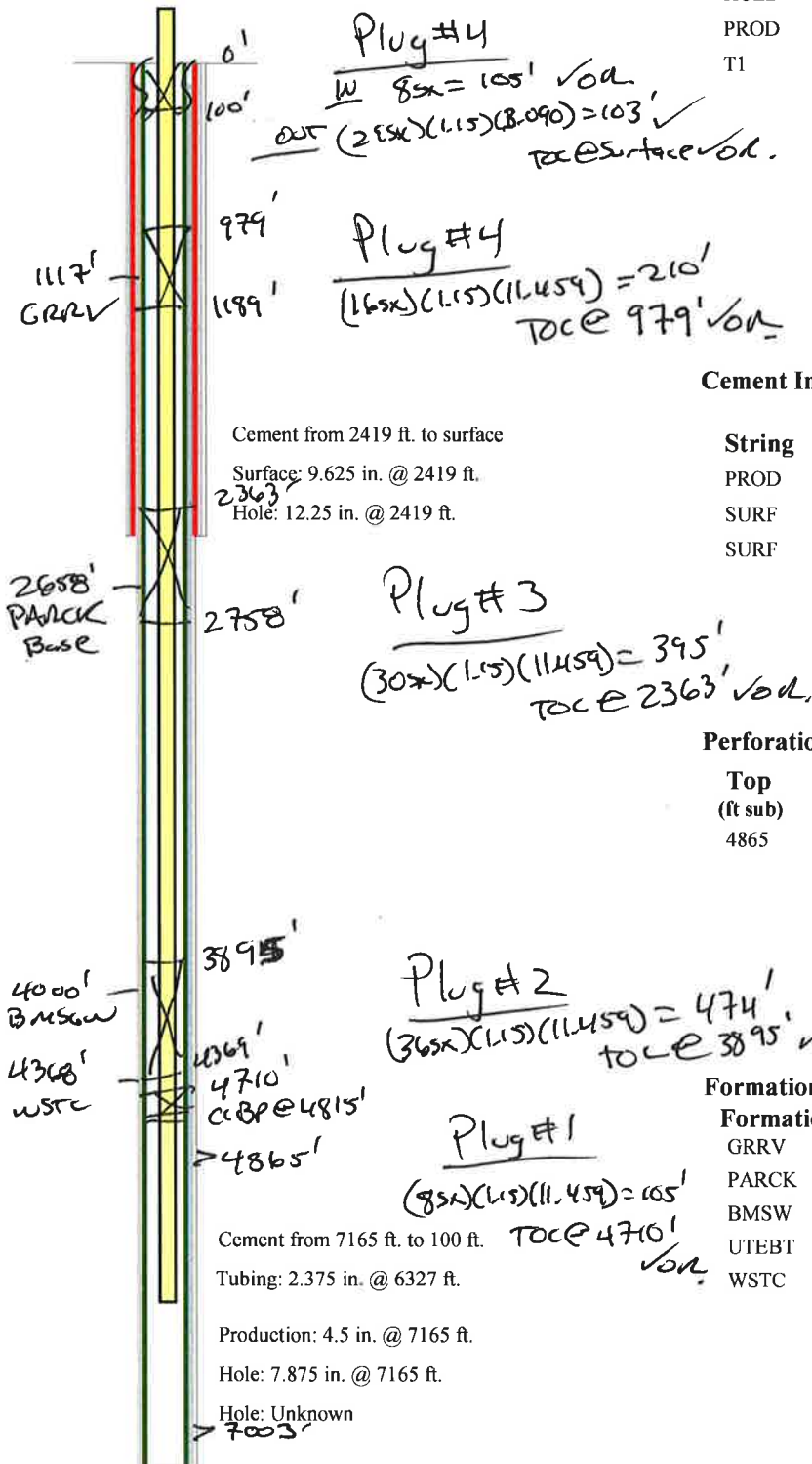
String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	7165	100	UK	1290
SURF	2419	0	HC	250
SURF	2419	0	G	500

## Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
4865	7003			

## Formation Information

Formation	Depth
GRRV	1117
PARCK	2658
BMSW	4000
UTEBT	4243
WSTC	4368



TD: 7175 TVD: 7175 PBD: 7120

NBU 667-24E  
 660' FSL & 660' FEL  
 SESE SEC. 24, T10S, R20E  
 UINTAH UT

KBE:	5226'	API NUMBER:	4304750012
GLE:	5216'	LEASE NUMBER:	ML-22790
TD:	7175'	LAT/LONG:	39.927705/-109.606539
PBTD:	7120'		

CASING : 12.25" hole  
 SURFACE 9.625" 36# J-55 @ 2419'

PRODUCTION 7.875" hole  
 4.5" 11.6# N-80 @ 7162'  
 Est. TOC @ 2000' CBL

PERFORATIONS: WASATCH TOP-BOTTOM 4865'-7003'

TUBING: 2.375" 5.7# TBG at 6324'

Tubular/Borehole	ID	Drift inches	Collapse psi	Burst psi	Capacities		
	inches				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg	1.995	1.901	8100	7700	0.1624	0.02171	0.00387
2.375" 4.7# P-110 tbg	1.995	1.901	13800	15400	0.1624	0.02171	0.00387
2.375" 4.7# L-80 tbg	1.995	1.901	11780	11200	0.1624	0.02171	0.00387
4.5" 11.6# N-80 csg	4	3.875	6350	7780	0.65282	0.08727	0.01554
9.625" 36# J-55 csg	8.921	8.765	2020	3520	3.24699	0.43406	0.07731

Annular Capacities	Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" tbg. X 4.5" csg	0.42272	0.05651	0.01006
4.5" csg. X 9.625" csg	2.42077	0.32361	0.05764
4.5" csg X 7.875 borehole	1.70406	0.2278	0.04057

#### GEOLOGIC INFORMATION:

<b>Formation</b>	<b>Depth to top, ft.</b>
Top Green River	1084'
Top Mahogany	1806'
Base Parachute	2658'
Top Wasatch	4369'

<http://digitallibrary.utah.gov/awweb/awarchive?type=file&item=55737>

BMSW Elevation ~1226' MSL  
 BMSW Depth ~4000'

## **NBU 667-24E PLUG & ABANDONMENT PROCEDURE**

### **GENERAL**

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED AS PER SOP.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.145 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY 48 HOURS BEFORE MOVING ON LOCATION.

### **PERTINENT WELL HISTORY:**

### **PROCEDURE**

**Note:** Approx. 127 Class "G" cement needed for procedure & (1) 4.5" CIBP

**Note: NO GYRO ON RECORD.** (IF GYRO NEEDED, A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE).

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL PER FOREMAN DISCRETION.
3. ISOLATE PERFORATIONS (7003'-4865'): RIH ON WIRELINE OR TUBING W/ 4.5" CIBP. SET @ ~4815', (50' above top perf at 4865'). RELEASE CIBP, PUH 10', CIRC ENTIRE HOLE W/ TREATED FRESH WATER AND PRESSURE TEST CASING. SET A 105FT BALANCED CMT PLUG F/ 4815' to 4710'(8 SXS, 9.16 FT3, 1.64 BBLS).
4. PROTECT WASATCH (4369') & BMSW (4000'): PUH WITH TUBING AND PUMP A MINIMUM OF (472FT) CMT F/ 4369' to 3897' (36 SXS, 41.22 FT3, 7.34 BBLS).
5. PROTECT PARACHUTE BASE (2658') & CASING SHOE (2419'): PUH WITH TUBING AND PUMP A MINIMUM OF (394FT) CMT F/ 2758' to 2364' (30 SXS, 34.35 FT3, 6.12 BBLS).
6. PROTECT GREEN RIVER (1084'): PUH WITH TUBING AND PUMP A MINIMUM OF (210FT) CMT F/ 1189' to 979' (16 SXS, 18.32 FT3, 3.27 BBLS).
7. PROTECT SURFACE (101'): PUH WITH TUBING AND PUMP A MINIMUM OF (105 FT) CMT F/ 105'-0' (8 SXS, 9.16 FT3, 1.64 BBLS). POOH AND RUN 1 INCH TUBING DOWN THE PRODUCTION/SURFACE CASING ANNULUS TO AS DEEP AS POSSIBLE AND CEMENT TO SURFACE (29 SXS, 33.21 FT3, 5.91 BBLS).
8. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
9. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.





<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML 22790
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 667-24E
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0660 FSL 0660 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 24 Township: 10.0S Range: 20.0E Meridian: S		<b>9. API NUMBER:</b> 43047500120000
<b>PHONE NUMBER:</b> 720 929-6456		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/13/2016	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the NBU 667-24E well on 12/13/2016. Please see the operations summary report for details. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 23, 2016		
<b>NAME (PLEASE PRINT)</b> Candice Barber	<b>PHONE NUMBER</b> 435 781-9749	<b>TITLE</b> HSE Representative
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/14/2016	

**US ROCKIES REGION**  
**Operation Summary Report**

Well: NBU 667-24E				Spud date: 2/14/2009					
Project: UTAH-UINTAH				Site: NBU 667-24E				Rig name no.: MILES-GRAY 1/1	
Event: ABANDONMENT				Start date: 12/5/2016				End date: 12/13/2016	
Active datum: RKB @5,226.00usft (above Mean Sea Level)				UWI: NBU 667-24					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation	
12/8/2016	13:00 - 16:00	3.00	ABANDP	30	A	P		ROAD RIG TO LOCATION. SPOT IN ALL EQUIP. MIRU. SDFWE.	
12/12/2016	7:00 - 7:30	0.50	ABANDP	48	B	P		HSM, CHECKING WELL PSI.	
	7:30 - 9:00	1.50	ABANDP	30	F	P		SICP 40 PSI, CONTROL WELL W/ 20 BBLS T-MAC DWN TBG & 15 BBLS T-MAC DWN CSG, ND WH UNLAND TBG NOT STUCK.RELAND NU BOPS RU FLOOR UNLAND L/D HANGER.	
	9:00 - 12:30	3.50	ABANDP	45	A	P		RU & SCAN OUT W/ 195 JTS 23/8 J-55, 74 YB, 121 RED, RED JTS HAD HEAVEY PITTING AND WALL LOSS. HEAVEY EXT SCALE STARTING JTS 168 -195.RD SCAN TECH.	
	12:30 - 16:30	4.00	ABANDP	31	I	P		PU 41/2 CIBP & 152 JTS 23/8 J-55, SET CIBP @ 4799' L/D JT 152. SWI SDFN.	
12/13/2016	7:00 - 7:30	0.50	ABANDT	48	B	P		HSM, WORKING W/ CMT CREW	
	7:30 - 12:00	4.50	ABANDT	51	D	P		EOT @ 4799' RU CEMENT DREW, CIRC WELL W/ 75 BBLS T-MAC, TEST CSG TO 500 PSI.OK.PUMPED 2.6 FRESH, 2 BBLS 10 SKS 15.8# 1.15 YEILD G CMT, DISPL W/ 17 BBLS T-MAC. L/D 14 JTS EOT @ 4360' PUMPED 2.6 BBLS FRESH, 7.7 BBLS 36 SXS 15.8# 1.15 YEILD G CMT, 1 BBL FRESH, DISPLACE W/ 13.8 BBLS T-MAC. L/D 51 JTS EOT @ 2745'. PUMPED 2.6 BBLS FRESH, 6.1 BBLS 30 SXS 15.8# 1.15 YEILD G CMT.1 BBL FRESH, DISPL W/ 7.9 BBLS T-MAC. L/D 49 JTS EOT @ 1185' PUMPED 2.6 BBLS FRESH, 3.27 BBLS 16 SXS 15.8# 1.15 YEILD G CMT, 1 BBL FRESH, DISPL W/ 2.7 BBLS T-MAC. L/D REM 37 JTS. RD FLOOR ND BOPS, RIG DOWN RIG. DIG & CUT WELL HEAD, TOP OFF 41/2 W/ 10 SXS CMT & 95/8 W/ 30 SXS CMT, WELD ON PLATE P&A COMPLETE.	